



**BOSTON
STATE
COLLEGE
CATALOG 1974-1976**



BOSTON STATE COLLEGE CATALOG 1974-1976

**625 Huntington Avenue
Boston, Massachusetts 02115**

Member of
The New England Association
of Schools and Colleges



1974-75 Calendar

FALL SEMESTER 1974

September	3	Tuesday	Classes Begin
October	14	Monday	Columbus Day, Holiday
October	21	Monday	Mid-Term
November	11	Monday	Veterans' Day, Holiday
November	28-29	Thursday, Friday	Thanksgiving Recess
December	2-13	Monday-Friday	Registration Period for Spring Semester
December	9	Monday	Last Day of Classes
December	10	Tuesday	Final Examinations Begin
December	20	Friday	Final Examinations End
December	21	Saturday	Vacation Begins
January	12, 1975	Sunday	Vacation Ends

SPRING SEMESTER 1975

January	13	Monday	Classes Begin
January	15	Wednesday	Martin Luther King Day, Holiday
February	17	Monday	Washington's Birthday
February	28	Friday	Mid-Term
March	17	Monday	Evacuation Day, Holiday
March	28	Good Friday	Spring Vacation Begins
April	6	Sunday	Spring Vacation Ends
April	21	Monday	Patriot's Day, Holiday
April	22-May 2	Tuesday-Friday	Registration Period for Fall Semester
April	30	Wednesday	Last Day of Classes
May	1-2	Thursday, Friday	Reading Period
May	5	Monday	Final Examinations Begin
May	14	Wednesday	Final Examinations End
June	7	Saturday	Commencement

STUDENT TEACHING DATES — Elementary, Secondary Education

First Quarter	Monday, September 9-Friday, October 25
Second Quarter	Monday, October 28-Friday, December 20
Third Quarter	Monday, January 13-Friday, March 7
Fourth Quarter	Monday, March 10-Friday, May 9

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Board of Trustees

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General Information

In September, 1974, Boston State College will begin its 123rd year of education for service. Under the direction of the Board of Trustees of the Massachusetts State Colleges, the college operates as a commuter institution, offering programs in the liberal arts and in teacher education.

A HISTORY OF THE COLLEGE

In 1851, Nathan Bishop, first superintendent of Boston schools, recommended the establishment of a normal school. A year later the Boston City Council passed an act establishing the Boston Normal School as a pretext to obtain some education for young women beyond training in grammar grades. At that time there was only one other city normal school and only seven other public institutions of that nature in the United States, three of which were in Massachusetts.

In the same year (1852), 86 girls stepped out of their grammar school classes to embark on a "glorious new profession of teaching" in the Adams School House on Mason Street.

The first president was Loring Lothrop. Twenty years later Dr. Larkin Dunton was named as first headmaster of the Normal School in its independent existence. Upon his death in 1899, after 27 years of leadership, he was succeeded by Wallace C. Boyden who had acted as assistant to Dr. Dunton for many years.

In 1888 the Normal School course was extended from its original length of one year to 1½ years, and in 1899 kindergarten training was added as a supplementary course. Kindergarten training was in its infancy then, and the Boston Normal School was the first public institution to give training in that line.

In 1892 the time required for matriculation was increased to two full years, and in 1913 it was lengthened to three years with greater attention given to kindergarten work. During the same year the University Extension Commission, after careful inspection, certified credit toward the degree of Associate in Arts in seven courses out of the 17 offered.

In 1922, with the addition of two four-year courses, an opportunity was given to students to qualify for the degrees of Bachelor of Education and Bachelor of Science in Education.

Then in 1924 the school's name was changed to the Teachers' College of the City of Boston. In 1926 the college was granted the right to award a Master of Education degree.

In 1942 the college was accredited by the American Association of Colleges for Teacher Education under the leadership of Dr. William H. J. Kennedy, president of the college from 1929 to 1948.

In 1948 men were admitted to the four-year course in Elementary Education following a 44-year wait, since men had been admitted to the Normal School in 1904. It was also during this year (1948) that Dr. William F. Looney took over the helm as the college's fifth president.

Probably the most significant event in the history of the college occurred in 1952 when, by a joint act of the Boston School Committee and the Massachusetts General Court, the Teachers' College became a state college under the Massachusetts Department of Education. It was now called the State Teachers College at Boston.

In 1960 the Massachusetts legislature passed an act eliminating the word "teachers" from the name of the state supported college. The State Teachers College at Boston thus became State College at Boston with the power to grant Bachelor of Arts and Bachelor of Science degrees in non-education courses.

Dr. John J. O'Neill succeeded Dr. Looney as the college's sixth president on September 1, 1968, the same year the college came to be known as Boston State College.

In May, 1971, Mr. Kermit C. Morrissey was elected president.

PURPOSE

The motto of the college is "Education for Service." In both its liberal arts and career programs the college aims at the fullest possible development of the individual through general education, professional preparation, and college activities.

The graduate should be prepared for full and effective participation in the life of the community, state, and nation. To fulfill this purpose the college aims to provide educational opportunities for as many qualified students as its facilities and resources will allow.

ACCREDITATION AND AFFILIATION

Boston State College is accredited by the New England Association of Schools and Colleges.

The New England Association of Schools and Colleges accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary schools meet the standards of membership.

In addition, most of the Teacher Education Programs offered on the undergraduate level have been approved by the National Association of State Directors of Teacher Education and Certification. Satisfactory completion of the Teacher Preparation Program leads to certification in 31 states including Massachusetts.

Teacher Preparation Programs certified by NASDTEC are: Elementary Education Department Elementary Education, Early Childhood Education, Urban Education; Department of Physical Education and Recreation for Women; Secondary Education Department Biology, English, Mathematics, Foreign Languages, General Science.

Boston State College also holds institutional membership in the following organizations:

- American Association of Colleges for Teacher Education
- Eastern States Association of Professional Schools for Education
- New England Teacher Preparation Association
- Association of State Colleges and Universities
- American Association of Colleges.

MASSACHUSETTS STATE COLLEGES' POLICY ON NON-DISCRIMINATION

It is the stated policy of the Board of Trustees of the Massachusetts State Colleges that in matters of college admissions, the employment of professional and non-professional personnel, and all other personnel matters in the State Colleges, individuals will be evaluated on their merits without respect to their race, color, creed, national origin, age, or sex, as prescribed in applicable federal and state laws.

Boston State College is an Affirmative Action Employer and encourages women and minority group members—male and female—to apply for positions.

ADMISSION

How and when to make application:

Applications for admission to all undergraduate programs may be obtained by writing to the Admissions Office.

Admissions for Graduate Study Programs are handled by the office of Dean of Graduate Studies. Both offices are located in the Administration Building. Applications will be available after October 1, 1974.

Admission Requirements

Boston State College offers programs to full-time students and part-time students enrolled in degree granting programs. For more information contact the Admissions Office.

Non-degree students may also take courses at Boston State College. For further information contact the Dean of Special Programs.

1. Freshman Candidates
Candidates for admission to the Freshman Class must furnish evidence of completion or anticipated completion of a level of education equivalent to four years of high school. All freshmen must furnish the following documents:
 - a. A completed application with an application fee of \$10.00.
 - b. A transcript of high school work including three complete years and at least the first marking period of the senior year or a copy of an equivalency certificate.
 - c. A completed Student Descriptive Questionnaire.
 - d. The results of the Scholastic Aptitude Test.

ALL APPLICANTS FOR THE FRESHMAN CLASS MUST SUBMIT THEIR APPLICATIONS BY MARCH 1.

2. Transfer Candidates
Candidates for admission to Boston State College with advanced standing must submit the following documents:
 - a. A completed application with an application fee of \$10.00.
 - b. Transcripts from all institutions of higher education attended.
- ALL APPLICANTS SEEKING ADMISSION TO BOSTON STATE COLLEGE AS TRANSFER STUDENTS MUST FILE APPLICATIONS BY APRIL 1.

Transfer credit is awarded only for grades of C or better obtained in courses pertinent to the programs offered at Boston State College. Credit will be awarded only from colleges which are accredited by a regional accrediting association or from colleges which are recognized as candidates for accreditation by a regional accrediting association. All transfer students must complete at least one year of full-time study at Boston State College. Boston State College is a member of the Commonwealth Transfer Compact which provides for ease of transfer of students to Boston State College from other segments of public higher education, especially Community College students who have completed an Associate Degree program.

3. For readmission information see page 14.

COURSE CREDIT THROUGH EXAMINATIONS

Advanced Placement

The Committee on Admissions will consider on an individual basis the status of applicants submitting scores for the Advanced Placement Tests of the College Entrance Examination Board.

College Level Examination Program (CLEP)

I. General Policy

A student enrolled in a Boston State College degree program may be awarded a maximum of 60 semester hours of credit on the basis of College Level Examination Program (CLEP) test scores. No credit may be gained for passing a CLEP examination in cases where the student has already earned credit through examination or course completion for the same subject area covered by the examination.

II. General Examinations

Credit based on the CLEP General Examinations will be granted to individuals who have attained a score at least equivalent to the 50th percentile of national norms established on college sophomores and published by the College Entrance Examination Board:

Boston State College General Education Requirement Satisfied		Semester Hours
General Examination		
English Composition	E101	3
Humanities	Group III Humanities	3
	Free Elective	3
Mathematics	Group III Nat. Sci./Math.	3
	Group II Nat. Sci./Math.	3
Natural Science	Group II Nat. Sci./Math.	6
Social Sciences/Hist.	Group III Social Science	3
	Free Elective	3

III. Subject Examinations

Credit based on the CLEP Subject Examinations listed below will be granted to individuals who earn scores at or above the mean score earned by regularly enrolled college students who participated in the national norms samples and received a grade of C in their college course in the subject concerned. The list below gives the minimum required score necessary for the awarding of credit. It also gives the semester hours of credit that may be earned and the Boston State College equivalencies. The list will be expanded as departments approve additional Subject Examinations.

<i>Examination</i>	<i>Minimum Score for Awarding Credit</i>	<i>B.S.C. Equivalencies</i>	<i>Semester Hours</i>
American Government	47	GV101	3
*American History	50	H201-202	6
Biology	49	BI201-202	6
College Algebra-Trigonometry	49	M103	3
Educational Psychology	47	PY203	3
English Composition	48	E101	3
Introduction to Psychology	47	PY101	3
Geology	49	RS101-102	8
Child Psychology	47	PY201	3
Introductory Accounting	50	EC103-104	6
Introductory Calculus	48	M105-106	7
Introductory Economics	48	EC101-102	6
Introductory Sociology	46	SO201	3
Money and Banking	48	EC207	3
Statistics	49	PY103	3
Tests and Measurements	46	ED431	3
*Western Civilization	50	H101-102	6

**The student must also successfully complete the essay portion of the examination. It will be graded by a committee within the Boston State College History Department.*

TUITION AND FEES

Tuition Deposit: Each entering student must pay a tuition deposit of \$50.00 following notification of acceptance. This deposit is non-refundable but is deducted from the first tuition payment of students who attend. A \$10.00 registration fee is required of each student attending classes in the Program of Continuing Education.

Tuition

I. For residents of Massachusetts:

- One Hundred Fifty Dollars (\$150.00) each semester payable before the beginning of the semester.
- Program of Continuing Education—\$22.00 each semester hour.
- Auditor in Program of Continuing Education—\$15.00 each semester hour.

II. For non-residents of Massachusetts:

- Three Hundred Dollars (\$300.00) each semester payable before the beginning of the semester.
- Program of Continuing Education—\$29.00 each semester hour.
- Auditor in Program of Continuing Education—\$15.00 each semester hour.

Student Activities Fee—\$14.50 each semester
 Athletic Fee—\$15.00 each semester
 Library Fee—\$5.00 each semester (also Program of Continuing Education)
 Late Payment Fee—\$10.00
 Late Registration Fee—\$10.00
 Placement Fee—\$5.00 (Graduating students only)
 Educational Services Fee—\$10.00 (Entering students only)

Every undergraduate student (except in the Program of Continuing Education) is required to pay these fees. None is refundable. Every student thus becomes a member of the Student Government Association with the privileges of participation in all its activities and programs.

Tuition Refund Policy—New Students, Freshmen, Transfers, Readmits

For all new students, there is a \$50.00 non-refundable tuition deposit. Such deposit shall be credited to the student's first semester tuition charges. If such a student withdraws within the first week after the beginning of classes, he shall be entitled to a refund of two-thirds of the tuition charge. If he withdraws between the end of the first week and the end of the second week, he shall be entitled to a refund of one-half the tuition charge. If he withdraws between the end of the second week and the end of the third week, he shall be entitled to a refund of one-third of the tuition charge. A student withdrawing after the third week of classes shall receive no refund. A student who withdraws in writing before the first day of classes is entitled to a total refund less \$50 deposit.

Tuition Refund Policy—Returning Students

A returning student who has paid his tuition prior to the opening of school and who notifies the school that he will not be attending any classes will be entitled to a full refund of all tuition. If he withdraws between the beginning of classes and the end of the first week he shall be entitled to a refund of two-thirds of the tuition charge. If he withdraws between the end of the first week and the end of the second week he shall be entitled to a refund of one-half the tuition charge. If he withdraws between the end of the second week and the end of the third week he shall be entitled to a refund of one-third the tuition charge. A student withdrawing after the third week shall not be entitled to any refund.

TUITION AND FEES CITED ABOVE ARE SUBJECT TO CHANGE BY THE BOARD OF TRUSTEES OF THE MASSACHUSETTS STATE COLLEGES.

FINANCIAL AID PROGRAMS

I. Programs Administered by the College

Boston State College administers federal programs of student financial assistance. These programs are available only for those students who are United States citizens or permanent residents of the United States.

Information regarding application procedures and eligibility requirements may be obtained from the Financial Aid Office, Room 202, Kennedy Building.

Details on the Law Enforcement Education Program may be obtained in the Office of the Academic Dean, Room 206, Administration Building.

II. Programs Administered by Agencies Outside the College

A. Massachusetts Board of Higher Education

The Board of Higher Education is authorized to grant scholarships to needy full-time students. Applicants must be U.S. citizens or permanent residents of the United States who are domiciled in Massachusetts. The application deadline for incoming freshmen is December 15 and, for upperclassmen, April 1.

Specific inquiries regarding this program should be addressed to:

Board of Higher Education
 Scholarship Office
 182 Tremont Street
 Boston, Massachusetts 02111
 Telephone: 727-5367

*Financial Aid,
Veterans
Information,
Trespass Act,
Academic
Advisement*

B. Massachusetts Higher Education Loan Plan (H.E.L.P.)

To help students from middle or upper income groups a Guaranteed Loan Program is available.

Students who wish to apply for H.E.L.P. loans should go directly to their local banks to obtain the necessary application forms. Inquiries regarding this program should be addressed to:

Massachusetts Higher Education Assistance Corporation
511 Statler Building
Boston, Massachusetts 02116
Telephone: 426-9434

C. Public Law 550 (Police and Fire Department Members)

Under the provisions of Public Law 550 (1972), any person who is a regular member of the police department or fire department of a city or town of the Commonwealth within commuting distance of a state college may be admitted as a candidate for a four-year degree,* and, while enrolled as a student in good standing, have his tuition paid by the Commonwealth. This program requires a recommendation by the candidate's superior officer, and the demonstration of sufficient academic ability as determined by a competitive examination. For further information on this program contact the advisors in the Law Enforcement or Fire Science programs.

**Provided that they meet the admissions requirements of Boston State College.*

VETERANS INFORMATION

Several forms of financial and academic assistance are available to veterans through the Office of Veterans Affairs, Room 202, Kennedy Building.

Available are:

1. Tuition Exemption—for veterans whose service was credited to the Commonwealth of Massachusetts and who served at least 180 days of active duty after February 1955.

Procedure: Obtain Form 10 (Proof of Residency in Massachusetts) from the State Adjutant General's Office, Room 1000, State House, 100 Cambridge Street, Boston, by submitting your discharge papers to that office. Bring Form 10 to Room 202, Kennedy Building, to complete the application.

2. G.I. Bill—monthly stipends from the federal government (up to 36 payments).

Procedure: Bring Form DD-214 (Discharge Papers), marriage certificate and children's birth certificates, if married and/or have children, to Room 202, Kennedy Building.

3. Tutorial Assistance—for those veterans who encounter academic difficulty, reimbursement for tutorial services of \$50 per month to a maximum of \$450.

MASSACHUSETTS TRESPASS ACT

Boston State College is governed by the Massachusetts Trespass Act, enacted June 2, 1969.

Trespassing Upon the Land of Certain Institutions

Whoever willfully trespasses upon land or premises belonging to the commonwealth, or to any authority established by the general court for purposes incidental to higher education, appurtenant to a public institution of higher education, the state prison, state prison colony, Massachusetts reformatory, reformatory for women, state farm, Tewksbury Hospital, Soldiers' Home in Holyoke, any public institution for the care of insane, feeble minded or epileptic persons, any Massachusetts training school or state charitable institution, or upon land or premises belonging to any county and appurtenant to a jail, house of correction or courthouse, or whoever, after notice from an officer of any of said institutions to leave said land, remains thereon, shall be punished by a fine of not more than \$50.00 or by imprisonment for not more than three months.

Academic Policies and Procedures

ACADEMIC ADVISEMENT

An Academic Advisement and Information Center (202K) has been established to assist students to plan an academic program, to choose a major and to select courses. This Center encourages freshmen in particular to take advantage of this advisory service.

ACADEMIC STANDING

Grades are reported according to the following system:

- 4.0, 3.5, 3.0, 2.5, 2.0, 1.5, 1.0, 0.0
 4.0 is the highest grade
 1.0 is the lowest passing grade

Other Grades

W (withdrew) is a grade given to a student who drops, in writing, a course after the tenth academic day to two weeks before the final day of classes.

P (passing) is used in pass/fail courses only. *P* indicates satisfactory completion of a course without quality designation.

Failing grades can never be removed from the transcript. If the failed course, taken at Boston State College, is repeated at Boston State College and passed, only the second grade is computed in the cumulative average, upon written request to the Registrar, Room 210A.

INC (incomplete) may be given only when, in the judgment of the instructor, the requirements of the course have not been completed. In order to complete a course in which a grade of INComplete has been received, the student shall make arrangements directly with the instructor. It is the student's responsibility to contact the instructor. **ALL IN-COMplete GRADES MUST BE MADE UP BY THE END OF THE SEMESTER IMMEDIATELY FOLLOWING RECEIPT OF THE GRADE.** If this requirement is not fulfilled, the grade of incomplete becomes a final grade of 0.0.

Change of Grade—No grade, other than incomplete, may be changed later than one calendar year after the original grade was submitted. Change of grades are made only with the written approval of the instructor, the department chairman and the authorization of the Dean of Students.

Averages

The semester grade point average is determined by dividing the total semester hours carried for the semester into the total quality points earned for the semester. Total semester hours carried include both total semester hours earned and failed.

Quality points are found by multiplying the course grade by the semester hours. Grades of INC are not computed for one full semester.

Cumulative grade point average is determined by dividing the total semester hours carried into the total quality points earned. Total semester hours carried include total semester hours earned and failed.

Semester and cumulative averages are computed on courses taken in the regular undergraduate program at Boston State College.

A 2.00 cumulative average is required for graduation.

Graduation with honors:

Summa Cum Laude—98-99th percentile

Magna Cum Laude—96-97th percentile

Cum Laude—93-95th percentile

DEPARTMENTAL HONORS PROGRAM

The Honors Program is a special, optional, scholarly opportunity open to any junior or senior who has maintained a cumulative average of at least 3.00. The program requires independent research and a thesis in the student's major discipline.

One course of three semester hours (490) in the respective department or program is available during the student's final semester of on-campus work. This course is considered complete only when the research document is actually completed and has been accepted by the Honors faculty advisor. For further information contact the appropriate departmental chairman.

Required Grade Averages

<i>Semester Hours*</i>	<i>For Good Standing</i>	<i>For Retention</i>
0-18	1.50	1.00
19-35	1.50	1.30
36-50	1.65	1.50
51-64	1.75	1.60
65-78	1.85	1.70
79-93	2.00 ✓	1.85
94-107	2.00	2.00
108—	2.00	2.00

**The higher number printed under the cumulative heading "HOURS EARNED" or "HOURS TAKEN" on your grade report is used to find your academic status in the table above.*

A student whose cumulative average falls below that required for retention will be dismissed because of academic deficiency.

A student has attained the Dean's List when his semester average is between 3.00 and 3.49, provided he has earned at least 12 semester hours and has no grade below 2.0.

A student has attained the President's List when he meets the requirements for the Dean's List and has a semester average of at least 3.50.

A student who has not attained the Dean's List or the President's List prior to the semester of student teaching is not eligible for that honor during that semester.

COURSE LOAD

A full-time student may register for no less than 12 nor more than 18 semester hours. The normal course load is approximately 15 semester hours. Individual variation from this load may be allowed only with the written permission of the Dean of Students.

COURSE CHANGES

A student may ADD courses only during the first two weeks of the semester.

A student may WITHDRAW from a course up to two weeks before the final day of classes by written request in the Office of the Registrar. No student may withdraw from a course during the last two weeks of a semester.

No student may be considered full-time if he carries less than 12 semester hours.

WITHDRAWAL FROM COLLEGE

A student who wishes to withdraw from college shall bring a letter of withdrawal to the Dean of Students and complete an exit interview.

Ordinarily, any student who has withdrawn shall not be considered for readmission until he has been separated from the college for a minimum of one complete semester.

Until a student withdraws officially, he is registered in all courses and will receive grades appropriate to his performance. Students who cease attending classes without officially withdrawing will receive grades of 0.0.

READMISSION AFTER WITHDRAWAL

All applications for readmission to the College must be filed in the Admissions Office by October 30 for January readmission and by March 31 for September readmission.

The Committee on Readmission shall make the final decision on those candidates who are to be readmitted.

REGISTRATION

Students who fail to register during the registration period are subject to a late registration fee.

A student must be photographed for his I.D. prior to selecting his courses.

TRANSCRIPTS

Transcripts may be requested either in person in the Office of the Registrar or through the mail and must be prepaid. No telephone requests will be honored.

No transcript will be sent unless all outstanding debts to the college have been satisfied.

Transcripts may be obtained upon request at the rate of \$1.00 each. Upon graduation one copy will be sent to each student without charge.

TRANSFER OF CREDITS

Students regularly enrolled who wish to secure credit for courses taken in other institutions or in Boston State College's Program of Continuing Studies or Graduate Studies (including summer sessions) must secure written permission from the appropriate Department Chairman prior to enrolling for these courses. A form must be completed and submitted to the Dean of Students. Forms are available in the Office of the Dean of Students, Room 202, Kennedy Building.

Student Personnel Services

*Counseling,
Foreign Students
Placement Office
Reading
Health*

COUNSELING SERVICES

A Counseling Service, Room 210, Kennedy Building, is provided by counselors prepared to assist students with their career planning and with personal problems. It provides students with an opportunity to work with experienced psychologists in increasing self-understanding so that they may more effectively make decisions for themselves. The Counseling Service also administers psychological tests when students request them. The Counseling Service is available to all members of the Boston State College community.

In order to provide the broadest possible range of mental health services for its students, Boston State College is affiliated with the Human Resources Institute which provides psychiatric back-up resource for all students enrolled at the College. The Institute offers both in-patient and out-patient services at 227 Babcock Street, Brookline, Massachusetts. Students utilizing the services of the Institute enjoy anonymity; visits are not recorded in the student's file. Further information about the service may be obtained at the Counseling Center.

FOREIGN STUDENTS

Foreign students registering for the first time should report immediately to the Dean of Students in order to be assigned an advisor who will assist them with their programs. In addition, the advisor will be available to assist and advise the foreign student in his adjustment to college life in America.

In those matters pertaining to a student's official immigration status while in the United States, the advisor will refer the student to Mr. Edward A. Zaleskas, Director of Admissions.

Students whose native language is not English are advised that the Department of Foreign Languages offers LL120-121, *English as a Second Language*, a course specifically designed to improve students' proficiency in English oral and aural skills.

PLACEMENT OFFICE

Vocational placement assistance and career counseling are offered at the Placement Office, Room 210K. In addition to individual counseling, job market information (both full and part-time) and on-campus interview opportunities are provided. Seniors are advised to register with the Placement Office early during their final year of study and to meet with the Director of Placement prior to active candidacy. It is important to the candidates that they allow adequate time for (1) placement office registration; (2) the accumulation of placement credentials; (3) resume preparation; and (4) planning their candidacies.

In many professional fields the competition for jobs is keen and, in a significant number of cases, the difference between receiving and not receiving consideration is a well-planned candidacy. Full and part-time job information is posted in the second floor corridor of the Kennedy Building. Additional information is available in the Placement Office.

READING AND STUDY SKILLS

The Reading and Study Center serves Boston State College students in two ways. First, the Center offers individual counseling in studying and reading problems. Second, the Center offers a two semester hour course in Reading and Study Skills for the student who needs help in performing college tasks more quickly and effectively. The course, RE101, Techniques of Reading and Studying, deals with the actual practice in attacking reading and study tasks; increasing rate of comprehension; improving organizational and recall skills; note-taking from lectures and textbook materials and study technique.

HEALTH

Nurses are on duty to attend to any student who may need medical aid. The Nurses' offices are located in Room 305G in the Gym Building and the First Aid Room on the first floor of the Fenway Building.

Students who return to the college after a prolonged absence are urged to report to the college nurse in Room 305G.



Organizations & Activities

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the official student organization, recognized by the President of the College, whose primary function is that of representing the needs of the students.

The Student Government Association is funded by the student activity fee which all students are required to pay each semester. Representatives and officers of the S.G.A. are elected by the undergraduate student body. The Student Government Association provides for the social, cultural, and educational needs of the students.

The following clubs and societies have been established to achieve these goals:

African Student Association	Law Enforcement
Alpha Psi Omega	Mathematics
Armenian	Music
Art	Newman
Biology	Night Watchers
Chemistry	Nursing
Chess	Phi Alpha Theta
Collegium Musicum	Philosophy
Commonwealth Club	Physical Education
Debate	Physics
Drama	Political Science
Earth Science	Psychology
Economics	Publications
English	Scuba Diving
Fire Service	Shakespeare
French	Ski
Geography	Sociology
German	Spanish
Hispanic-American	Volunteer Service
History	Women's Center

ATHLETICS

Boston State College sponsors men's varsity teams in football, cross country, soccer, hockey, basketball, wrestling, baseball, gymnastics, indoor and outdoor track, lacrosse, golf, and women's teams in volleyball, basketball, gymnastics, tennis, and softball. Cheerleading also is considered a varsity sport. There are coed teams in sailing, rifle and pistol.

The intramural program includes touch football, basketball, volleyball, floor hockey, tennis, karate, chess, weight-lifting and jogging.

Boston State College is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, the Eastern Association of Intercollegiate Athletics for Women, National Association Intercollegiate Athletics, Massachusetts Collegiate Athletic Conference, New England Football Conference, and the New England Athletic Conference.

VOLUNTEER SERVICE

The Volunteer Service Bureau operates on the principle of service for others, aiding local agencies through recreation leadership, group work, guidance and social services. Members offer unpaid service to agencies throughout Metropolitan Boston. For further information contact Professor Edith G. DeAngelis in the Physical Education and Recreation Department.

HONOR SOCIETIES

Chapters of six national honor societies are presently operating on the campus: the Mu Iota Chapter of Phi Alpha Theta, the international honor society in History; Iota Rho Chapter of Gamma Theta Upsilon, the professional Geography fraternity; a chapter of Psi Chi, the national honor society in Psychology; Sigma Pi Sigma, the international honor society in Physics; the Beta Sigma Chi chapter of Lambda Alpha Epsilon, the Law Enforcement honor society; and Kappa Delta Pi, the national honorary society in Education.

Boston State College is affiliated with the Center for International Education, a division of the Massachusetts State College System. The center provides information and placement of student teachers both in the elementary and secondary schools in Europe and South America. The center also acts as a clearinghouse for overseas teaching opportunities, special European courses and foreign internships for graduate students. For further information regarding overseas opportunities contact Professor Ronald Grinnell, fourth floor, Faculty Office Building.

Library-Media Resources

The College Library consists of three areas: the Huntington Library, which is located in a wing of the Administration Building; the Curriculum Center, located in Room 279 of the North Building; and the Fenway Library, Located in the Fenway Building at Ipswich Street.

The library collection of 150,000 volumes has doubled in the past seven years, and will be increasing each subsequent year by at least 20,000 titles. The library also has many collections of microfilm, microfiche (including ERIC, the Educational Resources Information Center Programs), as well as approximately 1,500 professional and scholarly periodicals and several thousand pamphlets, including state and federal documents. Two new acquisitions are the Urban Affairs Library on microfiche which contains timely articles in 15 subject areas from 150 U.S. newspapers, and Vital History Cassettes which record selected speeches made each month. Both of these are obtainable in each library, Huntington and Fenway. At the Huntington Library microfilms of the Boston *Globe*, Boston *Herald American*, and the New York *Times* back to 1851 have been added to the collection. Microfilm readers and reader-printers are available for the use of the film and fiche.

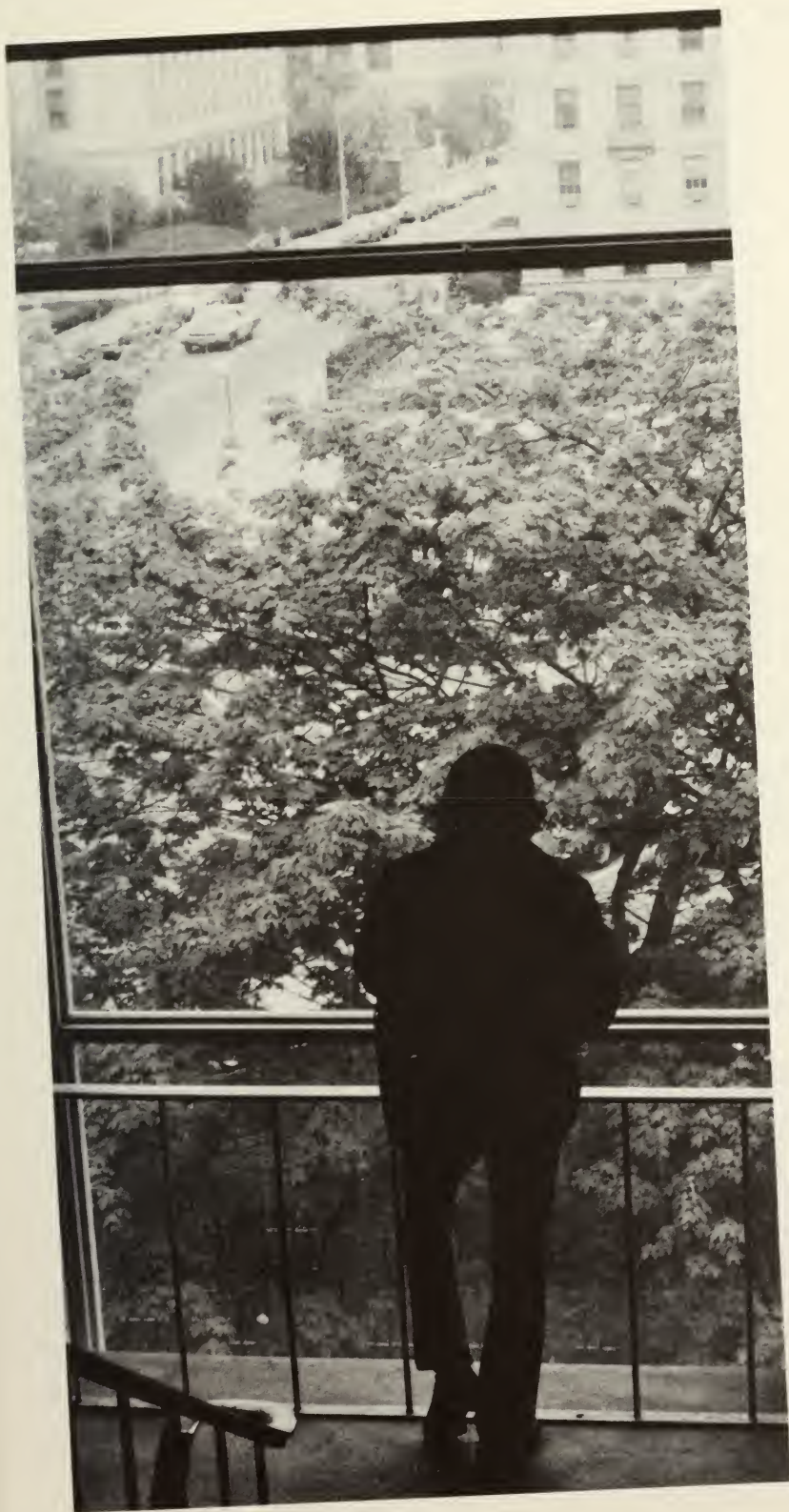
The Curriculum Center (275-279 North Hall) is a three area K-12 learning arena for educational mediated research, youth library activities, and instructional technology.

Area 275N contains the new instructional technology and youth activity center where there is a vast repository of recordings, films, games, audio and video cassettes, multi-ethnic curriculum packages, and other teaching tools.

The adjacent area (276N) is the temporary home of the Miriam Kallen Children's Book Archive where rare and first edition juvenile books are collected. That area is also the new Archives for Recorded Sound and Oral History, and the Center for the Study of Juvenile Materials.

The core area (279N) is solely for educational mediated research and reference, instructional strategies, and laboratory experimentation in School Library Media Technology.

The Fenway Library, the newest library facility, has been located on the first floor of the Fenway Building since September of 1970. This library houses the materials for English, History, Psychology, Economics, Political Science, Sociology, Anthropology, and Afro-American Studies. The Fenway collection has grown in less than four years to approximately 65,000 volumes and 600 periodical titles. Included in this figure are the Encyclopedia Britannica Collections of American Civilization and English Literature on microfiche. The library also has the Congressional Information Service microfiche library of congressional publications and legislation. There are readers and reader-printers available for viewing and making printed copies all microfiche and microfilm materials. The Fenway Library also has a rapidly growing audio-visual collection of records and cassettes. There is a stereo system available as well as cassette players and a cassette duplicator which students may use to make copies of their own or the library's cassettes.



Undergraduate Degrees and Requirements

Boston State College offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science and Bachelor of Science in Education degrees. Candidates for these degrees shall satisfy the general education requirements of the college, listed below.

Candidates for the degrees of Bachelor of Arts and Bachelor of Science must develop major and minor concentrations. In addition, those who seek the Bachelor of Arts degree must satisfy the foreign language requirement.

The Bachelor of Science in Education degree is offered in three fields: Elementary Education, Early Childhood and Elementary Education-Urban Specialization. Candidates for this degree shall major in one of these fields and shall complete the requirement in student teaching. These candidates must develop a minor concentration.

GENERAL EDUCATION REQUIREMENTS

Boston State College has long believed in a general education curriculum uniting the biological sciences and physical sciences, mathematics, the social sciences, and the humanities. The curriculum reflects this philosophy.

For graduation, all students should demonstrate competence in the following: English Composition, Speech, Humanities, Social Sciences, Natural Sciences, and Mathematics.

The college has made provision for students of outstanding ability to forego those courses in which they are able to display a high level of knowledge. If a student is able to demonstrate his proficiency by his performance in an Advanced Placement Test and/or a CLEP examination, he may select another course in the appropriate discipline with the advice and consent of the department chairman.

Required of All Students	6-8S.H.
English Composition (E101-102)	6S.H.
Effective Speech (E103)	2S.H.

The English Composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains a grade of 4.0 in E101, he may begin his Literature sequence in the second semester. Students may satisfy the speech requirement by successfully passing, during the sophomore year, the non-credit proficiency examination given by the Speech Department.

HUMANITIES

This requirement is to be satisfied by completing 18 semester hours of the following courses. Six hours must be met by choosing one two-course sequence from Group I and six by choosing one course from each of two departments listed in Group III. The remaining six hours must be met by choosing any two additional courses from Groups I, II or III.

Please note that E101-102 is a prerequisite for all other English courses.

Group I

Major British Writers	E201-202	6S.H.
American Writers	E205-206	6S.H.
Masterpieces of Western Literature	E203-204	6S.H.

Group II

African Literature	AA214	3S.H.
Black Theatre and Drama	AA420	3S.H.
Shakespeare I: Tragedies	E301	3S.H.
Shakespeare II: Comedies and Histories	E302	3S.H.

Romantic Poetry	E303	3S.H.
Modern Drama	E307	3S.H.
Advanced Writing	E322	3S.H.
Victorian Poetry	E404	3S.H.
Modern Novel	E406	3S.H.
Black American Literature I	E416	3S.H.
Black American Literature II	E417	3S.H.
Masterpieces of French Lit/Translation I	LF201	3S.H.
Masterpieces of French Lit/Translation II	LF202	3S.H.
Masterpieces of German Lit/Translation I	LG201	3S.H.
Masterpieces of German Lit/Translation II	LG202	3S.H.
Masterpieces of Spanish Lit/Translation I	LS201	3S.H.
Masterpieces of Spanish Lit/Translation II	LS202	3S.H.

Group III

Art Appreciation	A201	3S.H.
Structure in the Visual Arts	A202	3S.H.
Art in the United States	A303	3S.H.
Introduction to Oriental Art	A305	3S.H.
African and Afro-American Music	AA204	3S.H.
Black Religion	AA303	3S.H.
Phil. Foundations of Afro-American Social and Political Thought	AA402	3S.H.
African Religions	AA415	3S.H.
Introduction to the Art of Film	AF201	3S.H.
Appreciation of Music	MS201	3S.H.
Basic Studies in Music	MS205	3S.H.
Problems of Philosophy	PH101	3S.H.
Greek Philosophy	PH201	3S.H.
Existentialism	PH206	3S.H.
Ethics	PH301	3S.H.

SOCIAL SCIENCES

This requirement is to be satisfied by completing 15 semester hours of the following courses. Six hours must be met by choosing one two-course sequence from Group I. The remaining nine hours must be selected from courses listed in Group II from three different disciplines. To satisfy Massachusetts State Law either GV101 or H201 must be taken.*

Group I

Western Civilization	H101-102	6S.H.
History of Ideas	H103-104	6S.H.
World History	H105-106	6S.H.
History of Western Culture	H107-108	6S.H.
Great Personalities in Western History	H109-110	6S.H.
Great Cities of Western Civilization	H111-112	6S.H.

Group II

Introduction to Black Studies	AA101	3S.H.
Cultural Anthropology	AN201	3S.H.
Principles of Economics I	EC101	3S.H.
*American Government	GV101	3S.H.
Introduction to Political Science	GV103	3S.H.
*American History to 1865	H201	3S.H.
American History Since 1865	H202	3S.H.
Introduction to Psychology	PY101	3S.H.
Culture Systems	RS151	3S.H.
Urban Geography	RS175	3S.H.
Introduction to Sociology	SO201	3S.H.

NATURAL SCIENCES AND MATHEMATICS

This requirement is to be satisfied by taking a total of five of the following courses. One two-course sequence must be selected from Group I and one course from Group III. The remaining two courses must be chosen from Groups I, II or III.

Requirements

Group I

Biology	BI201-202	6S.H.
*Principles of Chemistry	CH101-102	8S.H.
*Introduction to Chemistry	CH107-108	8S.H.
College Physics	P101-102	8S.H.
General Physics	P103-104	8S.H.
Geology	RS101-102	8S.H.

Group II

Environmental Biology	BI309	3S.H.
Environmental Chemistry	CH105	3S.H.
Health Science	HL102	3S.H.
*Basic Modern Mathematics	M220	3S.H.
*Structure of Number Systems I	M224	3S.H.
*Structure of Number Systems II	M225	3S.H.
Astronomy	P306	3S.H.
Physical Science I	PS101	3S.H.
Physical Science II	PS102	3S.H.
Natural Science I	PS103	3S.H.
Natural Science II	PS104	3S.H.
Environmental Systems	RS125	3S.H.
Weather and Climate	RS225	3S.H.
Oceanography I	RS226	3S.H.
Oceanography II	RS227	3S.H.

Group III

Fundamental Principles of Math I	M101	3S.H.
Algebra and Trigonometry	M103	3S.H.
Analytic Geometry	M105	3S.H.
Mathematical Analysis I	M109	3S.H.

**A student may not take both CH101-102 and CH107-108, nor M220 and M224 for credit. Elementary majors are reminded that they must take either M220 or M224.*

The total program in general education is 54-59 semester hours (51-56 semester hours if the second semester of English Composition is excused). It is recommended that all students substantially complete these requirements in their first four semesters.

I. REQUIREMENTS FOR THE BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREES

Major and Minor Concentrations

The requirement for the B.A. or B.S. major concentration shall consist of 30 to 36 semester hours as specified by the department.*

The minor concentration shall consist of 18 to 21 semester hours to be determined by the department offering the minor. Departments may specify a core of courses required for major or minor. Students may elect a *Contract Minor* as alternative to a departmental minor. The Contract Minor permits students to develop interdepartmental minors of 18 to 21 semester hours, supporting particular occupational or graduate study goals, in cases where existing departmental minors cannot satisfy these goals. A rationale for the Contract Minor, including the specific courses to be completed, must be submitted to Contract Minor advisors within the student's major department, and are subject to approval by these advisors and their department chairman. A minimum of 120 semester hours shall be required for graduation.

**The only exceptions are the Psychology Department, which requires 24 hours, and majors in Chemistry, Medical Technology, and Nursing because of accreditation requirements of their professional societies.*

Foreign Language Requirement

Candidates for the degree of Bachelor of Arts may satisfy the foreign language requirement by the successful completion of a course at the advanced level (131-132) or above, or by the successful completion of two years' work in one language at college level. This requirement also may be met by a superior performance on the achievement test of the CEEB.

Teacher Preparation—Secondary

Students who plan to teach in the secondary schools shall qualify for the degree of Bachelor of Arts or Bachelor of Science and shall minor in secondary education. In addition they must student teach for a period of time not to exceed 16 weeks for which they will receive a maximum of 12 semester hours. All students must register for their student teaching practicum during the regular registration period for that semester. A student with a secondary education minor must complete 126 semester hours, including student teaching.

II. REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

Candidates for the degree of Bachelor of Science in Education shall develop a major of 36 hours in Elementary Education, Early Childhood or Elementary Education—Urban Specialization. In addition to the major, candidates shall teach for one semester for which they will receive 15 semester hours. All students must register for their student teaching practicum during the regular registration period for that semester.

The graduation requirement for this degree shall be 126 semester hours.

MAJOR AND MINOR FIELDS

Students may elect a major from the following fields:

Afro-American Studies	Nursing
Biology	Philosophy
Chemistry	Physical Education and Recreation for Men and Women
Economics	Physical Education for the Elementary School
Elementary Education	Physics
English	Political Science
Fire Science	Psychology
French	Public Administration
German	Regional Cultural Studies
History	Regional Latin American Studies
Law Enforcement	Regional Physical Studies
Management	Regional Urban and Planning Studies
Mathematics	Sociology
Medical Technology	Spanish
Natural Science	

A minor may be developed in any of the major fields and in any of the following:

Anthropology	Music
Art	Physical Education and Recreation for the Handicapped
Bilingual Education	Recreation
Dance	Secondary Education

SCHOLAR OF THE COLLEGE AWARD

This award was created by the General Purpose Trust Fund Board for the encouragement of scholastic and intellectual excellence at Boston State College and to give public recognition of outstanding academic achievement. For further information contact the Dean of Students Office, Room 202, Kennedy Building.

HONORS CONVOCATION

An Honors Convocation is held during the spring semester yearly. Awards are based on the recognition of outstanding academic achievement.

Evening Undergraduate College

The Evening Undergraduate College offers students an opportunity to pursue a program of study during the evening hours. Those students wishing to pursue a degree program in the Evening College may work toward a bachelor's degree in such areas as Business Management, English, Fire Science, History, Law Enforcement, Philosophy, Political Science, Psychology, Public Administration, Public Service, Regional Studies and Sociology.

Students may take a minimum of six semester hours and a maximum of 18 semester hours during each semester.

Classes are held Monday through Thursday evenings from 5:00 to 9:15 o'clock during the academic year.

Applications may be obtained from the Admissions Office.

Evening College students elect two representatives to the Student Government Association. Evening College students are encouraged to participate fully in Student Government activities.

Graduate Studies

Graduate students may pursue their work or degrees in the Division of Graduate Studies, which offers both full-time and part-time programs leading to the Master of Education degree and the Certificate of Advanced Graduate Study. The courses offered by the programs are usually scheduled in the late afternoon and evenings and on weekends in order to make them available to the greatest number of students.

The Division of Graduate Studies has its own catalog which is obtainable at the Office of Graduate Studies, Room 201 A. The Division also has prepared a supplement to the Graduate Studies Catalog for each of the programs offered, together with a statement of the requirements and complete course descriptions.

Special Programs

The Office of Special Programs is composed of several divisions including The Program of Continuing Education, the Urban Learning Center, Language Centers, Reading Clinics, Flexible Admissions Program and the General Education Development Program.

The Program of Continuing Education offers courses at both graduate and undergraduate levels. The major aim of the program is to provide persons an opportunity to take courses on a part-time basis for personal enrichment and professional advancement. Any student desiring a Master of Education degree will come under the direction of the Dean of Graduate Studies at the time of matriculation.

Community Service courses are offered. Some will be offered on campus and others will be located off campus depending on demand and availability of proper physical facilities. Courses include Law Enforcement, Bilingualism, Nursing and Drug Education.

The foremost responsibility of the Urban Learning Center is the development of programs and curriculum tailored to the specific academic needs of non-traditional students.

For further information contact Thomas F. Dungan, Dean of Special Programs, Room 109, Administration Building.

Departments and Programs

Afro-American

The following programs and course descriptions are those of the Undergraduate College.

Prerequisites are listed as a guide for the student. Students with a proficiency in a prerequisite area should consult the department chairman prior to registration.

Every course carries three credits unless otherwise indicated; "L" indicates the number of laboratory hours and "SH" is the number of credits other than three.

AFRO-AMERICAN

Albert A. Thompson, Ph.D., Chairman

Professor Thompson. Associate Professor Moore. Assistant Professors Hafkin, Longus, Nteta.

This is an interdisciplinary department. Its scope includes all aspects of past and present experiences of black people in Africa, America, and elsewhere.

The concentration leading to the B.A. and B.S. degrees requires 30 semester hours for a major and 18 for a minor.

AA101 (Introduction to Black Studies) is required of all majors and minors. It is strongly recommended that effective fall 1974, all majors and minors take AA101 in their first semester enrollment in Afro-American studies. Majors must also include two courses from each of the following groups:

- | | |
|-------------------------------|---|
| A. American Black Experience: | AA210, E416, E417, H361, H362, AA302, AA401 |
| B. African Black Experience: | AA214, AA410, H381, H382 |
| C. Modern Black Experience: | AA301, AA304, AA490 |

Prerequisites: Effective fall 1974, AA301 (Black Institutions) will be required for enrollment in AA304, AA340 and AA401.

AA490 and AA491 are open only to majors in Afro-American studies.

All courses meet every semester unless otherwise indicated.

AA101 INTRODUCTION TO BLACK STUDIES

To introduce potential majors and minors to the field, the black experience in literature, history, education, music, art, and political structures will be surveyed.

AA102 BLACK STUDIES: CONCEPT AND CONTROVERSY

Examines the history of the Black Studies Movement in terms of definition of the discipline, resistance to the inception and continuance of the discipline both historically and contemporarily.

AA111-112 ELEMENTARY SWAHILI (AA111—Fall, AA112—Spring)

Introduction to the language with emphasis on developing conversational ability and reading knowledge through selections from Swahili literature.

AA121-122 INTERMEDIATE SWAHILI (AA121—Fall, AA122—Spring)

Prerequisite: AA111-112. A continuation of first year Swahili to develop facility in conversation and reading plus a basic knowledge of Swahili literature. *Language laboratory.*

AA201 BLACK BIOGRAPHY (Fall)

A study of black life, personality, and achievement in the white-dominated environment of the United States as shown in several autobiographies.

AA204 AFRICAN AND AFRO-AMERICAN MUSIC (Fall)

Examination of black music from African origins to American expression, with emphasis on development of various forms of blues and jazz.

AA210 SLAVERY IN THE AMERICAS (Fall)

A comparative study of the origins, nature, and history of slavery as an economic and social system in the United States, West Indies, and Brazil, its impact on the slaves and their reactions to it.

AA214 AFRICAN LITERATURE (Fall)

Introduction to plays, poetry, short stories, and novels of modern Africa with critical reading for literary merit as well as statements about African society.

AA216 AFRICAN AND AFRO-AMERICAN ART (Spring)

A survey of black art from its religious and symbolic significance in Africa to the position of Afro-American art today. Boston area field trips.

AA301 BLACK INSTITUTIONS (Fall)

The history and nature of community organizations in the United States such as churches, social and self-help societies, businesses, and protest movements, including the modern concept of community control of institutions closely affecting the lives of black people.

AA302 THE BLACK FAMILY (Spring)

A historical and sociological study of the black family in the United States, with comparative materials from the West Indies and Africa, examining how slavery and urbanization have affected black family life.

AA303 BLACK RELIGION (Fall)

The nature and history of religious experience and ethics among black peoples in the United States, Latin America, and Africa, including black churches and their relations with white churches.

AA304 THE BLACK URBAN EXPERIENCE (Fall)

The sociology, economics, and politics of the modern ghetto, and the ideologies, strategies, and goals of current movements toward change, with field work in the Roxbury community.

AA305 BLACK FOLKLORE (Spring)

A study of the major forms of black folklore from the myths of origin and oral traditions of Africa to the folksongs, folktales and slave narratives of the United States.

AA310 THE BLACK EXPERIENCE IN THE WEST INDIES (Spring)

History and culture of black people in the Caribbean area; influences of West Indies on American black experience.

AA312 BLACK CAREERS (Fall)

This course will be offered as a *practicum* course designed to help students explore career opportunities. While a formal block will be assigned to the course, it is understood that the content of the course consists of the student taking a three-hour work assignment, probably in the afternoons, as an internship in black careers. The student will choose his work assignment from a list of internships.

AA340 BLACK POLITICS (Spring)

A study of the history of black participation in electoral politics and the modern situation of black political power at the local and national levels.

AA401 BLACK NATIONALISM (Spring)

History and theory of nationalist movements in the United States, Africa, and Latin America, based on the common experience of discrimination and colonialism.

AA402 PHILOSOPHICAL FOUNDATIONS OF AFRO-AMERICAN SOCIAL AND POLITICAL THOUGHT (Fall)

A study of some of the major ideological currents conducted through an approach based on philosophical analysis and intellectual history. Major figures, topics, and movements will be covered in a partially comparative way. Among the theorists studied will be such figures as Washington, Garvey, Dubois, Nkrumah, Senghor, and Fanon.

AA407 SOCIAL PSYCHOLOGY OF AFRO-AMERICANS (Spring)

A social psychological analysis of the psychological and behavior patterns of Afro-Americans. Focus will center on the identity, attitude, intelligence and personality of black Americans, utilizing the historical and socio-cultural approach. The course will examine the American social system, black institutions, and racism, with a discussion of the defensive and offensive mechanisms used by Afro-Americans.

AA410 MODERN SOUTHERN AFRICA

The sociology, politics, and economics of some African societies in white-dominated states, stressing their protest literature and resistance movements.

*Afro-American,
Allied Health
Professions*

AA412 PAN-AFRICANISM

The history and impact on this ideology on the struggles of blacks in Africa, the Caribbean and North America against colonialism and neo-colonialism.

AA415 AFRICAN RELIGIONS (Fall)

The history of Islam, in East and West Africa as well as Christianity and its relationship to colonialism. Also deals with messianic movements in various parts of Africa.

AA420 BLACK THEATER AND DRAMA (Fall)

A survey of the contribution of the black man to theater in the United States; history of black theater; reading of plays by black authors.

AA425 THE BLACK WOMAN (Spring)

An historical and social science perspective on the role of black women in America within the black family and the black community, as well as the larger society.

AA426 PROBLEMS IN BLACK HISTORY (Spring)

Designed for the advanced student with some previous knowledge of Afro-American and African history, this course will deal with major issues in the historical interpretation of African and Afro-American history.

AA490 SPECIAL TOPICS IN AFRO-AMERICAN STUDIES (Spring)

Required of honors candidates in the second semester of the junior year, this course will deal in research methods in the preparation of an honors project.

AA491 INDEPENDENT RESEARCH (Fall)

Advanced reading and research in Afro-American studies. Open to Afro-American studies majors with permission of the department chairman. The main purpose is to give students research experience where they can learn at least two different sets of research skills.

E416 BLACK AMERICAN LITERATURE I (Fall)

A study of major works of black American literature from slavery to the Harlem Renaissance comprises this course. It will include folktales and slave narratives.

E417 BLACK AMERICAN LITERATURE II (Spring)

A study of the major works of black American literature from the Harlem Renaissance to contemporary writings from Langston Hughes to Don L. Lee.

ALLIED HEALTH PROFESSIONS

Rita McCanley, Ph.D., Director

MEDICAL TECHNOLOGY

Marie T. Tierney, M.T. (ASCP), Director

The curriculum is designed to fulfill the requirements stated by the Board of Registry of the American Society of Clinical Pathologists. The academic requirements include 94-96 semester hours of education at Boston State College. These three years plus a year of clinical education in a school of medical technology approved by the Council on Medical Education of the American Medical Association are conducted so that the baccalaureate degree requirements for a BSMT degree from Boston State College are fulfilled.

The specific courses that are required include a minimum of 16 semester hours in chemistry and 16 semester hours in biology plus one semester of college level mathematics or its equivalent.

When the student has fulfilled these requirements plus those required by the college for the granting of the degree, application is made to an approved hospital school for a calendar year of clinical training. The college grants 30-32 semester hours' credit for this clinical internship. Selection of candidates for each hospital school is made by the educational coordinator at the hospital after a personal interview and transcript evaluation of the student's academic record.

Upon completion of all these requirements, application may be made to the Board of Registry to take a qualifying examination to become a registered medical technologist.

MT103-104 MEDICAL TECHNOLOGY ORIENTATION SEMINAR I, II

Required of all majors in medical technology. Designed to introduce the student to an understanding of the professional objectives and his role in medical technology. Discussion, hospital experiences, selected readings.

MT493-494 CLINICAL INTERNSHIP I, II

30-32S.H.

Required of all medical technology majors. Admission only with the approval of the Educational Coordinator of an approved hospital school of medical technology and college director of the program. Lecture and laboratory work in microbiology, blood banking, hematology, clinical chemistry, clinical microscopy and urinalysis. This training is under the supervision of a qualified staff in an accredited school of medical technology.

AREA OF CONCENTRATION—MEDICAL TECHNOLOGY—NUCLEAR

Henry Mariani, Co-Director

An area of concentration is offered in medical technology—nuclear. Three years are spent at Boston State College in courses which give the student the theoretical background needed for the fourth, clinical year, and to meet the requirements for the baccalaureate degree.

The school is affiliated with a number of local hospitals which have American Medical Association and American Registry of Radiologic Technologists approval. At the beginning of the sixth semester the student will apply through the program chairperson for hospital affiliation. A 2.0 in all science courses will be minimal for consideration for recommendation for appointment to one of the hospital positions allocated to the department.

When the required fourth year is satisfactorily completed (evaluation will be made by the hospital staff and the director) the student will be eligible to receive the B.S. degree with a major in medical technology from Boston State College. Graduates are then eligible for examination for certification by the Registry.

Freshman applying for this program must be interviewed by the director after official admission to the college.

NT209-210 ORIENTATION SEMINAR IN NUCLEAR MEDICAL TECHNOLOGY OS.H.

Required of all majors in nuclear medical technology. Designed to introduce the student to an understanding of the professional objectives of, and his role in, nuclear medical technology. Discussions and lectures by visiting specialists, hospital visits, and selected readings make up the course.

ART

Vincent J. Tringale, Chairman

Professors Bertolli, Tringale. Associate Professors Cody, DiGiovanni, Egleston, Fiorello. Assistant Professors Arvanites, Fox Tree, Lipchitz, Nelson, Polito, St. Pierre, Wrigley.

The courses offered by the Department of Art are designed to develop perception, imagination, intelligence, and creativity. In order to foster these abilities and to promote a general understanding of man's aesthetic nature, a program in both the theoretical and the practical aspects of art has been provided.

The film, photography, and screen media courses offered by the department are seen as a series of introductory courses to visual media. As the need warrants, other aspects in visual and aural media will be included.

A minor in art may be acquired by students who will take courses totaling a minimum of 18 semester hours of art elective courses as designated by the Department of Art.

Attendance requirements: Because of the nature of studio work, attendance in class is part of the requirement of studio courses. Credit for all class projects will be granted only if these are developed in class under the supervision of the instructor.

All courses meet every semester unless otherwise indicated.

A101 DESIGN

Problems in space, line, form, color, and texture are considered and developed in various techniques.

A102 INTRODUCTION TO DRAWING AND PAINTING

A studio experience in which a series of basic problems dealing with the student's immediate environment is utilized. The development of fundamental skills in painting techniques is fostered.

A103 WATERCOLOR PAINTING

A studio workshop in the exploration of the media of watercolor. Varied tools and materials, brush techniques and principles of composition will be used and studied. Problems are set up to aid the student in gaining control of the media. In addition, time for individual experimentation will be utilized.

A201 ART APPRECIATION

This course introduces the student to an approach to the works of the artist and to important writings in aesthetics. Analysis of the visual language is developed through slide lectures, museum visits, and assigned reading. Emphasis is placed on the aesthetic appreciation of the various areas within the socio-historic context.

A202 STRUCTURE IN THE VISUAL ARTS

A lecture-laboratory approach to an appreciation of art through cognitive reasoning and visual discrimination. Through analysis of works of art, the student is expected to experience a greater insight into the creative process. As a follow-through of the above, the student will create his own interpretations in varied art media.

A203 INTERMEDIATE DRAWING AND PAINTING (A)

An objective approach to the recording of nature. Still life, portrait and landscape paintings are executed in opaque and transparent paints to develop the student's powers of observation.

A204 INTERMEDIATE DRAWING AND PAINTING (B)

2L.

A course in painting experimentation and free interpretation of the object, stressing an individual search for form and color. An individual style and personal direction are expected to be developed by the student.

A205 LIFE DRAWING I

This course is concerned with the artistic study of the human figure; its articulated form and balanced relationships, its movements, related proportions and anatomical construction. The human figure is an inexhaustible source of study and provides the best focus for all previous exercises and experiences in drawing and interpretation. The course will offer intensive study of the human figure as well as how it plays a central part in its environment and in the creation of artistic compositions.

A206 LIFE DRAWING II

Prerequisite: A205. Advanced work in drawing the human form.

A301 ADVANCED PAINTING (A)

2L.

A course in which the personal and individual style of the student is used to solve problems of self-expression, augmented by the knowledge of design, using mixed media, collage and paint.

A302 ADVANCED PAINTING (B)

2L.

This course stresses the personal painting style of the student. Individual interpretation of subject matter will be discussed and examined through critique.

A303 THE ARTS OF THE UNITED STATES

This course will cover painting, sculpture and architecture in America from the time of the colonies to the present. "Revival Periods" and contemporary styles will be discussed and analyzed.

A304 MODERN AND CONTEMPORARY ART (Spring)

Prerequisite: A201. The course traces the development and influence of man's activities in Europe and the Americas in the twentieth century and their effect upon painting, sculpture, architecture, and the minor arts.

A305 INTRODUCTION TO ORIENTAL ART

The study in depth of classic periods of Indian, Chinese, and Japanese art with readings in literature and philosophy of religion as well as history, as requisite background for understanding the Eastern context. A seminar atmosphere will be emphasized as well as use of the Oriental Art Collection of the Boston Museum of Fine Arts.

Art A306 SCULPTURE I

Introduction to basic techniques of additive and subtractive sculpture. Relief as well as sculpture in the round projects will be executed. Plastic, clay, wood, wire and styrofoam are the materials to be explored. Casting in plaster will be emphasized. *Open only to juniors and seniors.*

A307 HISTORY OF RENAISSANCE ART (Fall 1974 & 1975)

Prerequisite: A201. This course will treat the arts of the fourteenth, fifteenth and sixteenth centuries as a record of the intellectual, humanistic, and aesthetic embodiment of the spirit which is the basis of modern thought. It will explore the impact of the mind of man in his creative quest for imposing intelligence, creativity, and skill upon ideas and materials especially as seen in the arts of this unique period of man's history.

A308 AMERICAN ARCHITECTURE (1600-1850) (Spring 1975 & 1976)

Prerequisite: A201. This course will survey those periods of American architecture dealing with Early American, Georgian, Federal, Greek Revival, and American Gothic. The emphasis will be on the rich architectural heritage of Boston and New England. Research projects required will deal particularly with buildings of historical interest in the area.

A309 HISTORY OF BAROQUE ART (Spring 1975 & 1976)

Prerequisite: A201. This course will explore the major art works of the seventeenth and eighteenth centuries, with special emphasis on the Baroque style, also including the styles that run parallel and counter to it—Realism, Classicism, Rococo, and Neo-Classicism—as the “middle term” between the Renaissance and the modern age.

A310 HISTORY OF ANCIENT ART (Fall 1974 & 1975)

An illustrated survey of the fine arts in Western Europe and the Near East, with special discussions of the major works of Prehistoric, Mesopotamian, Ancient Near East, Egyptian, Aegean, Etruscan, and Roman art.

A311 HISTORY OF MEDIEVAL ART (Spring 1975 & 1976)

An illustrated survey of the fine arts of Europe from the fall of the Roman Empire to the Early Renaissance, emphasizing many of the major works of art during the brilliant flowering of Coptic, Early Christian, Byzantine, Carolingian, Romanesque, and Gothic eras.

A312 BOOK DESIGN AND ILLUSTRATION (Fall 1974 & 1975)

A practical course in the mechanics of producing children's books and other illustrated books for publication. Procedures of layout, typography, color preparation, reproduction processes, and the preparation of dummies will be examined. The book publishing market and procedures for submitting books for publication will be examined.

A313 COMMERCIAL DESIGN (Spring 1975 & 1976)

An examination of the field of visual advertising, including newspaper, magazine, television, direct-mail and poster advertising. Techniques of layout, lettering, illustration, processes of production and reproduction of art work, and approaches to the marketing of the product will be studied.

A315 ART FOR THE KINDERGARTEN-PRIMARY LEVEL

Required of kindergarten-primary majors. A study of the foundations and current objectives of art educators and their application to the grade levels concerned with this course.

A316 ARTS AND CRAFTS: KINDERGARTEN-PRIMARY LEVEL 2L., 1S.H.

Prerequisite: A315. Required of kindergarten-primary majors. A studio course designed to give a working knowledge of the basic techniques in two and three dimensional art deemed essential on the kindergarten and primary levels.

A325 ART FOR THE ELEMENTARY SCHOOL

Required of elementary education majors. An introduction to various philosophies of art education, past and present. This course is designed to acquaint future teachers with the wide scope in the various areas of child growth and development as related in their art. Students experiment with the various media appropriate to the elementary art program.

A326 ARTS AND CRAFTS: ELEMENTARY LEVEL 2L., 1S.H.

Prerequisite: A325. Required of elementary education majors. A workshop course designed to introduce the wide variety of media and materials and in the use of these in two and three dimensional art projects.

A401 SEMINAR IN PAINTING 2L.

An advanced painting course, conducted under seminar conditions for philosophical and visual inquiry into the personal style of each student through ideas and critique.

A406 SCULPTURE II (Spring 1975 & 1976)

This course is designed as a follow-up to A306 (Sculpture I). It is intended to broaden the scope and depth of the student's sculptural expression. Techniques in wood and stone carving as well as direct fabrication in wood, metal and plastic will be stressed.

*Art,
Film and
Photography
Biology*

A490 HONORS SEMINAR IN ART OR ART EDUCATION

Under faculty supervision pursuing, in depth, a phase of art, art history, or art education. Involves guided research, studio work, developmental experimentation and written conclusions. Will confer honors if other requirements are satisfied. Hours variable.

FILM AND PHOTOGRAPHY COURSES

AF201 INTRODUCTION TO THE ART OF THE FILM (Fall 1974 & 1975)

In the past 75 years, film has developed a highly sophisticated language of its own. This course will provide the student with a basic understanding of film communication and expression through an in-depth study of its major elements. Among the topics to be studied are: the image, motion, time and space in film, editing, sound and color. Students will be asked to come to terms with these elements through illustrated lectures, student exercises, and the analysis of classic and lesser known theatrical films.

AF301 PHOTOGRAPHY: THEORY AND PRACTICE I (Fall 1974 & 1975)

Intended for students with little or no previous experience in photography. Basic technology covered but emphasis will be on photography as a medium of communication and expression. Section 1 only for students with access to their own 35mm camera. Section 2 for students without 35mm equipment. Instamatic-type cameras will be provided. Registration limited.

AF302 FILM: THEORY AND PRACTICE (Spring 1975 & 1976)

2L.

A course providing basic experience and understanding of communication and expression through film for students with little or no previous experience in film. Consideration of a variety of theoretical approaches to film with instruction and practice in basic film making. Equipment supplied. Registration limited.

AF303 SURVEY OF FILM (Spring 1975 & 1976)

Each semester a different type, genera, or style of filmmaking will be selected for in-depth study through film screenings and discussions. The area of study for any one semester will be chosen from the following: the American feature film, the western, the documentary film, the foreign film, the film director (for example, Orson Welles, John Ford, Fellini, etc.), films of dissent, the propaganda film. Students will prepare a major paper on the topic under study.

AF304 PHOTOGRAPHY: THEORY AND PRACTICE II (Spring 1975 & 1976)

Prerequisite: AF301 or instructor's consent. A continuation of AF301. This course will deal with screen image sequencing, slide-tape presentations, and multiple screen presentations. Students will explore the aesthetic potential of sequenced and multiple images through the production of slide-tape presentations. Limited to 15. Students must have access to a 35mm camera.

AF401 SCREEN EDUCATION (Fall 1974 & 1975)

2L.

A course exploring the uses of the popular mass media in formal and informal educational situations. Consideration will be given to the impact and influence of films and television on children and young people with emphasis centered on the aesthetic design of educational communication. Also covered will be the philosophy and methods of "screen education" Illustrations for the course include media (film, TV, audio-tapes, etc.) made by children and young people.

AF402 ART AND FILM TECHNOLOGY (Spring 1975 & 1976)

A seminar and laboratory course exploring the use and potential application of modern technology, especially the visual media of photography, film and television in traditional art forms. *Admission by consent of department chairperson.*

BIOLOGY

Rita McCauley, Ph.D., Chairman

Professors Colt, Fowell, McCauley, Woodland. Associate Professors Gesmer, Hilton, Kunnenkeri, Segelman, Shan, Veale. Assistant Professors Armstrong, Guimond, Hellquist, Murray, Olson, Parsons, Priest, Tierney. Instructor Cosgrove.

The department offers both major and minor programs in biology. All biology majors must complete CH203 or CH207. Two semesters of mathematics are required. Two semesters of physics are recommended. All biology majors must complete BI101, BI207-208, BI301, BI306, BI401, and BI402. Unusual program situations may be adjusted with the consent of the chairman of the department.

Students preparing to teach biological sciences must fulfill the requirements of the Department of Biology and the Department of Secondary Education.

All biology majors and minors are required to register with the biology department.

A minor in biology may be developed from a combination of biology courses for which the student has the stated prerequisites.

All courses meet every semester unless otherwise indicated.

BI101 FRESHMAN ORIENTATION SEMINAR IN BIOLOGY I (Fall) 0S.H.

Current developments in biology will be discussed. An opportunity will be given to become familiar with the use of microscopes and other departmental equipment. Required of all future biology majors.

BI201 BIOLOGY I 2L.

The course introduces the student to the principles and problems basic to an understanding of life processes. Lectures and discussions are planned to broaden the concepts gained from laboratory work.

BI202 BIOLOGY II 2L.

Prerequisite: BI201. A continuation of Biology I. Lectures and discussions are coordinated with laboratory work and readings.

BI204 BIOLOGY OF THE LOWER PLANTS (Spring 1975 & 1976) 2L.

Prerequisite: BI 201 or BI207. A consideration of the structure, functioning, and life cycles of significant representatives of the algae, fungi, lichen, liverworts, mosses, and ferns.

BI207 GENERAL BOTANY (Fall 1974 & 1975) 2L., 4S.H.

This course deals with the biology of the plant kingdom. Particular attention will be given to the chemical processes involved in photosynthesis, respiration, and nutrition. Lectures, demonstrations, laboratory work, and readings will be used. *Required of biology majors in place of BI201.*

BI208 INVERTEBRATE ZOOLOGY (Spring 1975 & 1976) 2L., 4S.H.

Prerequisite: BI207. The non-chordate animals will be studied with emphasis on the reactions of the living organism. Culturing methods and care will be included. Lectures, demonstrations, laboratory investigations, and readings will be used. *Required of biology majors in place of BI202.*

BI211 ANATOMY 4L.

Prerequisite: BI202. A study of the structure of the organ systems of man. Laboratory includes a dissection of the cat and selected sheep organs. *Not open to biology majors.*

BI212 HUMAN PHYSIOLOGY 3L.

Prerequisite: BI211. The analysis of the functions of human organ systems including the digestive, muscular, nervous, endocrine, reproductive, circulatory, respiratory and excretory systems. *Not open to biology majors.*

BI213 ANATOMY AND PHYSIOLOGY I (Fall 1975) 4L., 4S.H.

Prerequisite: BI202 or BI208. A study of the human organism correlating structure and physiological mechanisms. Emphasis on skin, skeletal, articular, muscular, and circulatory systems. *Not open to biology majors.*

BI214 ANATOMY AND PHYSIOLOGY II (Spring 1976) 4L., 4S.H.

Prerequisite: BI213. Emphasis on the respiratory, nervous, endocrine, special senses, digestive, excretory, and reproductive systems. *Not open to biology majors.*

BI222 FIELD BIOLOGY (Fall 1975)

Prerequisite: BI202 or BI208. A taxonomic survey of the flora and fauna of the New England region designed to acquaint the student with these forms through observation and the use of field guides, taxonomic keys and collere collections will be required.

BI223 DRUGS: USE AND MISUSE (Spring 1975 & 1976; Fall 1975)

An in-depth study of all categories of drugs and their actions on the body. Both use and misuse will be discussed. Various aspects of the drug problem such as sociological, psychological and pharmacological will be covered. The purpose of the course is to prepare people regardless of background to intelligently discuss a topic which has become so important a problem in our society today.

BI301 VERTEBRATE MORPHOGENESIS (Fall 1974 & 1975)

6L., 5S.H.

Prerequisite: BI202 or BI208. An integration of vertebrate comparative anatomy and embryology which considers mechanisms, interdependence, and the factors underlying structural transformations.

BI303 HISTOLOGY AND HISTOLOGICAL TECHNIQUES (Fall 1974 & 1975) 4L., 4S.H.

Prerequisite: BI202 or BI208. A study of cells and tissues with attention given to their relation to the anatomy and physiology of the whole organism. Practice will be given in the preparation of tissues for microscopic study.

BI304 INTRODUCTION TO EXPERIMENTAL BIOLOGY (Spring 1975 & 1976) 6L.

Prerequisites: BI202 or BI208, BI204 and CH102. An introduction to the particular working of the scientific mind through participation both as an individual and as a team member in work on a series of investigatory units.

BI305 HISTORY OF BIOLOGY (Spring 1975)

1S.H.

A survey of the evolution of knowledge of the biotic world leading to a concept of the present state of biological science and the problems it faces.

BI306 ECOLOGY I (Spring 1975 & 1976)

Prerequisite: BI202 or BI208. A study of the relationships of plants and animals to their environment. Behavior, structure, adaptation, and natural selection are the central themes. Three optional field trips.

BI307 ECOLOGY II (Fall 1974)

Prerequisite: BI306. Continues and presupposes BI306 dealing primarily with the patterns and origins of plant and animal distribution of the earth. The role of natural selection as an additive agent is emphasized.

BI308 MARINE BIOLOGY (Fall 1974)

2L.

Prerequisite: BI202 or BI208. A study of marine algae, marine invertebrates, and marine fish with emphasis on collecting, preserving, and identifying local New England species. Weekly laboratory exercises familiarize the student with a wide variety of living marine specimens. Two field trips.

BI309 ENVIRONMENTAL BIOLOGY

Course deals with man's interrelationship with his environment and the problems this presents in today's world. Topics to be discussed will include nutrition, energy, water, air, open space, radiation, wilderness, wildlife, and populations. Optional field trips.

BI310 AQUATIC BIOLOGY OF HIGHER PLANTS AND ANIMALS

(Fall 1974 & 1975)

2L.

Prerequisite: BI202 or BI208. A study of the freshwater vascular plants and lower vertebrates; their life history, environmental relationships and identification. Optional field trips.

BI311 HEMATOLOGY (Spring 1975)

An introduction to the theory and practice of hematologic examinations. Study of morphological characteristics of blood cells, their origins, development and abnormalities in addition to the laboratory tests required to examine these characteristics.

BI312 MEDICAL MICROBIOLOGY (Formerly BI406)

4L., 4S.H.

Prerequisites: BI202 or BI208, CH102 or CH108. Required of medical technology and nursing majors. An introduction to research, methods, principles and theories in isolation, cultivation, identification, and control of pathogens.

BI313 MICROBIOLOGY (Formerly BI404)

4L., 4S.H.

Prerequisites: BI202 or BI208, CH102 or CH108. Fundamentals of structure, growth, and habitat of the major groups of microorganisms. Laboratory experiences will give training in the basic methods of observation, propagation, and study of microorganisms.

BI401 CELLULAR BIOLOGY (Spring 1975 & 1976)

4L., 4S.H.

Prerequisites: BI202 or BI208, CH203 or CH207. The components of cells, their nature, characterization and functional role.

BI402 GENETICS (Fall 1974 & 1975)

4L., 4S.H.

Prerequisite: BI202 or BI208. An introduction to the principles and physical basis of heredity. Laboratory experiences will include fundamental techniques used in modern genetic research.

BI403 HUMAN GENETICS (Fall 1975)

Prerequisite: BI208. Elective for majors in medical technology. Others with consent of department chairperson. The theories and principles of heredity and variation as applied to human development.

BI405 SPECIAL PROBLEMS IN BIOLOGY

4L., 2S.H.

Prerequisite: BI304. Investigation into an open ended biological problem chosen from the student's special interests and needs. *Open only to biology majors.*

BI407 ADVANCED MICROBIOLOGY (Spring 1976)

4L., 4S.H.

Prerequisite: BI313. A study of the isolation, identification and physiological activities of microbial life as related to human needs. Principles of immunity and serology will also be discussed.

BI408 COORDINATING SEMINAR IN BIOLOGY (Spring 1975)

2S.H.

Reading, lectures, and discussions designed to unify and strengthen the background of students in modern biology. *Open only to senior biology majors.*

BI409 PLANT PHYSIOLOGY (Fall 1975)

4L., 4S.H.

Prerequisite: BI401. The major physiological processes of plants.

BI410 PARASITOLOGY (Spring 1975)

4L., 4S.H.

Prerequisite: BI202 or BI208. A study of symbiosis emphasizing commensalism, parasitism, and mutualism including parasites of medical importance. Parasitic protozoans, flukes, tapeworms, roundworms, insects, ticks and mites that transmit diseases and are of importance in public health, and principles of human ecology as they relate to epidemiology will be a major part of the course.

BI411 VERTEBRATE PHYSIOLOGY (Fall 1974 & 1975)

3L.

Prerequisites: BI301, BI401. A study of the life processes of vertebrate animals, including circulation, respiration, excretion, digestion, reproduction, nervous system, special sense organs, and the endocrine system.

BI412 PHYSIOLOGICAL ECOLOGY (Spring 1975 & 1976)

Prerequisites: BI306, BI411. Comparative study of physiological adjustments which animals make in response to environmental factors, with emphasis on the physiological basis of animal distribution and evolution.

BI490 HONORS RESEARCH IN BIOLOGY (Spring 1975 & 1976)

Prerequisites: BI304 and approval of the Honors Committee. The student will conduct independent research under faculty direction and will present an oral and written presentation of the investigation.

CHEMISTRY

Henry Mariani, Chairman

Professors F. McCarthy, McDonagh, Pappas. Associate Professors Caputo, Lembo, Mariani. Assistant Professors Sanford, Thompson.

The department offers courses leading to a variety of goals. The chemistry major sequence follows the requirements set out by the American Chemical Society. These courses will prepare students to continue their education in graduate school or to follow a career in industry. Majors in chemistry are required to take the following courses: CH101, CH102, CH201, CH202, CH203, CH204, CH302, CH303, CH304, and CH306.

In addition, CH402, CH403 and CH460-461 (research) are recommended as electives. These are included in the guidelines set forth by the American Chemical Society.

To earn a minor in chemistry, the following courses are required: CH101, CH102, CH205, CH207 and CH305.

If you plan to apply to either a medical or a dental school and you are seeking a minor in chemistry, it is recommended that your minor consist of CH101, CH102, CH203, CH204 and CH305.

Chemistry majors with a secondary education minor will be required to take CH101, CH102, CH205, CH207, CH303, CH304 and two chemistry electives from the list of required chemistry courses.

All courses meet every semester unless otherwise indicated.

CH101 PRINCIPLES OF CHEMISTRY I

3L., 4S.H.

A quantitative approach to modern chemistry. Principles and concepts which form the bases of chemical theory are emphasized. Atomic and molecular structure, chemical bonding, kinetic theory, periodicity and stoichiometry. The laboratory is designed to reinforce the concepts covered in lecture.

CH102 PRINCIPLES OF CHEMISTRY II

3L., 4S.H.

Prerequisite: CH101. A continuation of the previous semester dealing with the following topics: energy changes, solutions, acid-base theory, equilibrium theory, thermochemistry, electrochemistry and nuclear chemistry. The laboratory consists of more advanced work in techniques and qualitative analysis.

CH103 GENERAL CHEMISTRY I (Fall)

3L., 4S.H.

The properties of matter, the gas laws, atomic structure, periodicity, bonding and energy changes in reactions are the topics treated in the first semester. The laboratory experience is correlated with the lecture material. *Not open to chemistry majors.*

CH104 GENERAL CHEMISTRY II (Spring)

3L., 4S.H.

Prerequisite: CH103. This is a continuation of the first semester and treats the chemistry of solutions, chemical equilibrium, nuclear chemistry, and an introduction to organic and biological chemistry. The laboratory is correlated with the lecture material. *Not open to chemistry majors.*

CH105 ENVIRONMENTAL CHEMISTRY (Fall)

A survey course for students interested in learning the impact of modern chemistry and chemical technology on the environment. A brief survey of the chemical principles needed to intelligently discuss the course material will be followed by a consideration of topics such as air pollution, water pollution, pesticides, food additives, and energy sources. *Not open to chemistry majors.*

CH107 INTRODUCTION TO CHEMISTRY I (Fall)

2L., 4S.H.

Atomic and molecular structure, bonding energetics and chemical reactions as well as the theoretical principles of general chemistry are considered. *Required for nursing majors. Also open to non-science majors.*

CH108 INTRODUCTION TO CHEMISTRY II (Spring)

2L., 4S.H.

Prerequisite: CH107. Basic organic chemistry, nomenclature, classes of compounds and reactions of these classes are discussed as an introduction to a survey of biochemistry. *Required for nursing majors. Also open to non-science majors.*

CH201 QUANTITATIVE ANALYSIS I (Fall)

4L., 4S.H.

Prerequisite: CH102. A laboratory and lecture course which treats the areas of gravimetric analysis, acid-base theory, aqueous and non-aqueous neutralization reactions and titrations involving precipitate formation.

CH202 QUANTITATIVE ANALYSIS II (Spring)

4L., 4S.H.

Prerequisite: CH201. Complexometric and redox methods of analysis are covered as well as potentiometric, conductometric, spectrophotometric and chromatographic techniques.

CH203 ORGANIC CHEMISTRY I (Fall)

4L., 4S.H.

Prerequisite: CH102. Nomenclature, detailed treatment of structure, stereochemistry, mechanisms of reactions and synthetic procedures of the following classes of organic compounds: alkanes, alkenes, alkynes, alkyl halides, alcohols, organocarboxylic acids, esters, and carbonyl compounds. The laboratory work is designed to develop proper techniques with liquids and experience in synthesis of liquid substances.

CH204 ORGANIC CHEMISTRY II (Spring)

4L., 4S.H.

Prerequisite: CH203. A continuation of CH203 with a treatment of amines, carbonic acid derivatives, sulfur compounds, amino acids, proteins, sugars, benzene and its derivatives. The laboratory work involves techniques of handling solids and the synthesis of solid substances.

CH205 QUANTITATIVE CHEMISTRY (Fall)

2L., 4S.H.

Prerequisite: CH102 or CH104. A survey of analytical procedures. Topics included will be gravimetric and volumetric analysis, the pH meter, spectrophotometry and chromatography. *Not open to chemistry majors.*

CH207 FUNDAMENTALS OF ORGANIC CHEMISTRY (Spring)

2L., 4S.H.

Prerequisite: CH102. The fundamentals of organic chemistry are discussed. Topics included will be structure nomenclature, functional groups, reactions, methods of synthesis and analytical procedures. The biological aspects of organic compounds will be noted whenever possible. *Not open to chemistry majors.*

CH208 THERMODYNAMICS (Fall)

Prerequisites: CH102, 2 semesters calculus. The axiomatic study of the nature of energy. Logically necessary consequences are deduced which describe the interaction of energy with matter. Applications to general and chemical engineering are given.

CH221 INSTRUMENTATION IN CLINICAL CHEMISTRY (Fall)

4L

Prerequisites: CH102, CH201 or CH205. The course is concerned with the theory and use of instruments in general use in clinical laboratories.

CH302 INORGANIC CHEMISTRY (Fall)

Prerequisite: CH303. The consideration of the modern theories of atomic structure, chemical bonding, and molecular structure and their application to various topics in inorganic chemistry such as acid-base theory, ionic crystals, boron hydrides and coordination compounds.

CH303 PHYSICAL CHEMISTRY I (Fall)

4L, 4S.H.

Prerequisites: CH202, M207, P102. Laws and natures of gases, liquids and solids. Properties of solutions and thermochemistry. Intensive laboratory exercises in these areas accompany the lectures and are an integral part of the course.

CH304 PHYSICAL CHEMISTRY II (Spring)

4L, 4S.H.

Prerequisite: CH303. A detailed study of types of equilibria, chemical kinetics, and electrochemistry. The laboratory is a continuation of the first semester, with more complex techniques and more advanced experiments.

CH305 BIOLOGICAL CHEMISTRY (Spring)

2L, 4S.H.

Prerequisites: CH205, CH207. Chemistry of carbohydrates, lipids, proteins, and other materials of biological importance; the transport, reactions and role of these substances in the living organism are treated along with intermediary metabolism and biological oxidation.

CH306 QUALITATIVE ORGANIC ANALYSIS (Spring)

4L

Prerequisites: CH202, CH204. Qualitative and quantitative analysis of selected organic compounds will be used to teach the fundamentals of research techniques in the field of organic chemistry.

CH307 RADIOCHEMISTRY (Fall)

3L, 4S.H.

Prerequisite: CH205. Types of radioactive decay, methods of detection and measurement of radioactivity and the application of radioactivity to various scientific disciplines are discussed. Laboratory work in tracer methodology, counting techniques and health physics.

CH308 RADIATION PROTECTION (Spring)

Prerequisite: CH307. A study of the hazards associated with radiation and radioactive materials, the means of recognizing and measuring them as well as the methods by which they may be controlled. State and federal regulations, guidelines and recommended practices are included.

CH402 BIOCHEMISTRY (Spring)

4L, 4S.H.

Prerequisites: CH204, CH304. Protein structures and conformations, protein interactions, proteins as enzymes, oxidations, free energy and kinetics of biological systems are considered.

CH403 CHEMICAL INSTRUMENTATION (Spring)

4L

Prerequisite: CH304. The theory and application of modern methods of instrumentation useful in chemical analysis will be discussed. Emphasis will be placed on electrochemical methods, spectrophotometry, chromatography and nuclear magnetic resonance.

CH407 SYNTHETIC ORGANIC CHEMISTRY (Fall)

4L

Prerequisite: CH204. Includes the study of additional classes of compounds and special topics of interest in organic chemistry. Emphasis is placed on synthetic methods, including mechanisms, and the scope and limitations of the important name reactions most frequently encountered in synthetic processes.

CH460-461 SENIOR RESEARCH

Research problems under faculty direction involving literature search, laboratory work and a written account of the results. Three semester hours per term.

CH490 SENIOR RESEARCH AND HONORS

Research problems under faculty direction involving literature search, laboratory work and a written account of the results. Will confer honors if other requirements are also fulfilled. Replaces CH461 for honors students.

ECONOMICS

Joann P. Stewart, Ph.D., Chairman

Professor Parente. Associate Professors Jacobs, Stewart. Assistant Professors Greeley, Chiong.

An economics major is available for all liberal arts candidates working for the B.S. or B.A. degree. Economics majors are required to complete 30 semester hours in economics including the following courses: EC101, EC102, EC301, EC302, EC412. M402 may be substituted for EC412. For those majors in economics who plan to go to graduate school, it is strongly urged that they minor in mathematics.

A minor in economics is open to all degree candidates. A minor must complete EC101, EC102, and an additional 12 hours in economics.

A minor in Business Economics may be completed by taking EC103, EC104, and four other business economics courses. All Business Economics courses are asterisked (*).

The Economics Department participates in the honors program.

All courses meet every semester unless otherwise indicated.

EC101 PRINCIPLES OF ECONOMICS I

A study of the basic institutions of capitalism; the determination of income employment and prices; the monetary system; and economic growth and pollution.

EC102 PRINCIPLES OF ECONOMICS II

Prerequisite: EC101. An introduction to supply and demand analysis; production theory; the distribution of income and wealth; international economics; and comparative economic systems.

*EC103 FINANCIAL ACCOUNTING AND CONTROL I (Fall)

A study of the basic principles of accounting and their uses as tools for economic analysis and managerial decision making.

*EC104 FINANCIAL ACCOUNTING AND CONTROL II (Spring)

Prerequisite: EC103. Covers topics such as budget administration, cost accounting systems, full and direct costing, differential costing, income determination, and use of return on investment.

EC202 RADICAL POLITICAL ECONOMICS (Fall 1975)

Prerequisite: EC102. An analysis of western capitalism using non-orthodox theories (Marx, Mao, Baran, Mandel). Focuses on problems of alienation, irrationality, and imperialism.

*EC203 INTERMEDIATE ACCOUNTING I (Fall)

Prerequisites: EC102, EC104. The first professional level course for accounting and financial majors. A study of accounting theory and concepts with emphasis on current application, new developments and controversies in financial reporting.

*EC204 INTERMEDIATE ACCOUNTING II (Spring)

Prerequisite: EC203. A continuation of the discussion of accounting theory and its development relative to underlying issues in economics and finance. Addresses special problems in applications in the business corporation. Provides introduction to specialized topics in auditing, taxation and cost accounting.

EC205 LABOR ECONOMICS (Fall)

Prerequisite: EC102. An analysis of manpower economics including unemployment, labor markets stressing wages and mobility, and unions with emphasis on collective bargaining and the law.

*EC206 LABOR RELATIONS (Spring 1976)

Institutional arrangements with respect to employees. Studies labor union history, labor law and the collective bargaining process.

EC207 MONEY, BANKING AND CREDIT (Fall)

Prerequisite: EC102. A study of the monetary system in the United States including the structure and organization of the commercial banking system; the framework and process of Federal Reserve control; and non-bank financial intermediaries.

EC209 HISTORY OF TECHNOLOGY

A study of technological change and its effects on production, productivity, living standards, occupations, and continuing technological advance. *Course offering to be announced.*

EC301 INTERMEDIATE ECONOMIC THEORY: MACROECONOMICS (Fall)

Prerequisite: EC102. Examines in simple model form the essential sectors of the economy viewed in terms of aggregate spending and total resource supply; and involving both fiscal and monetary approaches to considerations of stability and growth.

EC302 INTERMEDIATE PRICE THEORY: MICROECONOMICS (Spring)

Prerequisite: EC102. Analyzes the theory of demand, costs, production and market structure giving consideration to the allocation and distribution of resources.

EC303 ECONOMICS OF URBAN PROBLEMS (Spring 1976)

Prerequisite: EC102 or EC107. Study of economic and financial costs and benefits of urban change and growth; covers such topics as industrial structure, labor markets, transportation, housing, education and income distribution.

EC304 GOVERNMENT AND BUSINESS (Fall 1974)

Prerequisite: EC102. An analysis of the effect on market performance of government policies to promote competition and regulate monopoly.

EC305 INTERNATIONAL ECONOMICS (Fall 1975)

Prerequisite: EC102. Theory of international trade, theory of factor movements, balance of payments, monetary adjustments, effects of tariffs; role of international agencies, and the third world.

EC306 AMERICAN ECONOMIC HISTORY (Fall 1975)

Prerequisite: EC102. An analytical study of the growth and development of the American economy from the colonial period to the present.

EC307 COMPARATIVE ECONOMICS (Spring)

Prerequisite: EC102. An analytical study of various forms of organizing economic activity, including centrally planned, mixed and free market economies.

***EC308 CORPORATE FINANCE (Fall)**

Prerequisites: EC102, EC104. Distribution of corporate assets; sources and costs of short- and long-term funds; relevant institutions.

***EC309 INVESTMENT PRINCIPLES (Spring)**

Prerequisites: EC102, EC104. Criteria for investment decision making; problems of risk, size, and timing of investment; consideration of depreciation and technological change.

EC310 PUBLIC EXPENDITURE AND FINANCE (Spring 1975)

Prerequisite: EC102. Study of spending and taxation by all levels of government; examines major kinds of taxes indicating incidence and policy implications; analyzes effects of allocation of resources, distribution of income and stabilization of the economy.

EC311 ECONOMIC DEVELOPMENT (Spring 1976)

Prerequisite: EC102. The special problems of growth in underdeveloped countries; capital requirements, institutional change, population problems, and free markets vs. central planning form the core of the course.

***EC312 MARKETING (Fall)**

Prerequisites: EC102, EC104. A study of the marketing system, emphasizing the interrelationships between the business firm and consumers, government and economic institutions. Focuses on marketing functions and activities in the business firm: market research and analysis, product development, advertising, sales and distribution. Utilizes cases to assess product policy and pricing decisions, considering demand and cost factors.

EC401 MONETARY THEORY AND POLICY (Spring 1976)

Prerequisite: EC301. An analysis of the classical theory of money, money in the Keynesian system, restatement of the quantity theory, interest theory, price behavior, and elements of domestic and international monetary policy.

EC403 BUSINESS CYCLES AND GROWTH (Spring 1975)

Prerequisite: EC301. An examination of growth and cycles in advanced capitalistic countries with special attention to growth and problems of growth in the United States since World War II.

***EC404 MANAGEMENT ECONOMICS (Spring)**

Prerequisites: EC102, EC104. The decision making process in a business enterprise, cost analysis, linear programming, and the theory of organization.

EC412 INTRODUCTION TO ECONOMETRICS (Fall)

Prerequisite: EC102. An analysis of measures of central tendency and dispersion; sampling

theory; hypothesis testing; index numbers; regression and correlation analysis; and time series analysis.

EC490 SPECIAL TOPICS IN ECONOMICS (Spring 1976)

The student will do independent research on a topic determined by the student in consultation with members of the department.

*Economics,
Elementary
Education*

ELEMENTARY EDUCATION

Ann M. Gavin, Ed.D., Chairperson

Professors Gavin, Miller, Newell. Associate Professors Clancy, Collins, Durant, Giorgio, Norman, Phelan, Rice, R. Sullivan. Assistant Professors Barrett, Boylan, Celi, Galvin, McCarthy, Moloney, Pula, E. Sullivan.

The Department of Elementary Education offers the following majors:

- Elementary Education
- Early Childhood Education
- Elementary Education—Urban Specialization

Each program has as its major objective to prepare teachers who have the knowledge, attitudes, and skills needed to be a successful teacher of children. Basic courses are offered and required in general and specific methods of teaching and learning. Many courses involve the prospective teacher in working with children in public schools where they progress from teacher-aide to teacher-assistant and finally each student is involved in a full semester of supervised student teaching. During student teaching, each student works at two different levels, and with two different groups of children.

Students majoring in elementary education are required to complete a minor in:

- a. An academic area *OR*
- b. Bilingual Education with an Urban Specialization *OR*
- c. Contract Minor

OR a concentration may be completed in:

- a. School Library Science *OR*
- b. Reading *OR*
- c. Urban Specialization

Students are encouraged to consult with their department chairperson early in their freshman year for academic advisement.

MAJOR IN ELEMENTARY EDUCATION

BLOCK I—All courses must be taken to fulfill elementary education requirements.

*EL223	Principles and Current Techniques of Teaching
EL227	Observations
EL321	Comm Arts—Reading
EL322	Comm. Arts—Language
EL328	Social Studies Methods
**EL329	Science Methods
***M326	Methods of Teaching Mathe- matics in the Elementary School
EL422	Educational Measurement
***PY201	Child Psychology

BLOCK II—Select *one* course.

A325	Art for the Elementary School
PE301	Physical Education Methods
MS422	Music for the Elementary School

BLOCK III—Select *three* courses.

EL325	Media Materials for Elemen- tary Classroom Learning
EL331	Reading for the Mature Learner

*Elementary
Education*

EL401 PY412	Remedial Reading Psychology of Exceptional Children
E321 EL362	Children's Literature Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL364	Reference and Bibliography Sources in the School Library
EL366	Classification and Cataloging of Print and Non-Print In- structional Materials
EL462	Organization and Administra- tion of the School Library Media Center

BLOCK IV—All elementary majors will student teach for one full semester.

EL400 EL400ZL	Student Teaching and Seminar Practicum in School Library Education and Student Teach- ing
EL400LM	Student Teaching and Seminar for minors in Bilingual Educa- tion

**This course is a prerequisite to all elementary education courses.*

***Students should consider taking physical science courses as a background for teaching all science methods courses.*

****The prerequisites for these courses can be met by a careful selection of General Education requirements.*

EARLY CHILDHOOD EDUCATION

BLOCK I—All courses must be taken to fulfill early childhood requirements.

*EL210	Principles and Current Tech- niques—Primary
*EL217	Observation
EL311	Comm. Arts—Reading
EL312	Comm Arts—Language
EL313	Principles and Current Tech- niques—Kindergarten and Preschool
EL318	Science and Social Studies Methods
EL422	Educational Measurement
**M316	Methods of Teaching Mathe- matics in Kindergarten-Prim- ary
**PY201	Child Psychology

BLOCK II—Select *one* course.

A315	Art for the Early Childhood
PE301	Physical Education Methods
MS411	Music—Kindergarten Primary

BLOCK III—Select *three* courses.

EL325	Media Materials for Element- ary Classroom Learning
EL330	Cultural and Historical Per- spectives
EL401 PY412	Remedial Reading Psychology of Exceptional Children
EL331	Reading for the Mature Learner
E321	Literature for Children
EL364	Reference and Bibliography Sources in the School Library

EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials
EL462	Organization and Administration of the School Library Media Center

Elementary Education

BLOCK IV—All early childhood majors will student teach for one semester.

EL400	Student Teaching and Seminar
EL400ZL	Practicum in School Library Education and Student Teaching

**This course is a prerequisite to all early childhood courses.*

***The prerequisite for these courses can be met by a careful selection of General Education requirements.*

ELEMENTARY EDUCATION—URBAN SPECIALIZATION

All freshmen interested in teaching in the urban elementary school are invited to participate in the Workshop in Urban Education (EL220U). Through this workshop, students will work in a public urban classroom one morning each week as a teacher's aide. This experience will serve as a self-screening process by enabling the student to better identify his or her particular area of interest.

BLOCK I—All courses must be taken to fulfill the elementary education—urban requirement.

*PY201	Child Psychology
*M326	Math Methods
EL323U	Principles and Current Techniques—Urban School
EL324U	Reading and Language Arts (two consecutive semesters)
EL328U	Social Learnings in the Urban School
EL329U	Science Methods in the Urban School
EL422	Educational Measurement

BLOCK II—Select one course.

A325	Art for the Elementary School
PE301	Physical Education Methods
MS422	Music Methods

BLOCK III—Select three courses.

EL325	Media Materials for Elementary Classroom Learning
EL331	Reading for the Mature Learner
EL401	Remedial Reading
PY412	Psychology of Exceptional Children
E321	Literature for Children
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL364	Reference and Bibliography Sources in the School Library
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials
EL462	Organization and Administration of the School Library Media Center

BLOCK IV—All urban education majors will student teach for one semester.

EL400U

Student Teaching and Seminar
Practicum in School Library
Education and Student Teach-
ing

EL400ZL

EL400LM

Student Teaching and Seminar
for minors in Bilingual Educa-
tion

**The prerequisite for these courses can be met by a careful selection of general education requirements.*

MINOR

Minor in Bilingual Education

Open to: Elementary majors—Urban Specialization
OR
majors in French or Spanish

For candidates already possessing native or near-native fluency in any language currently used in a Massachusetts Bilingual Program (Spanish, Portuguese, French, Italian, Greek, Arabic, Chinese, Armenian) only LM410 and LM420 are required. Language proficiency must be demonstrated in the oral and written test required by the State Bilingual Law.

BLOCK A—In French, the following courses are required:

LF311 or 312

French Composition and Con-
versation

LF324

Spoken French

LM410

Methods and Materials for Bi-
lingual Education and FLES

LF411

Advanced French Composi-
tion and Stylistics

LM420

Methods and Materials in En-
glish as a Second Language

LM430

Advanced French for the Bi-
lingual Teacher

BLOCK B—In Spanish, the following courses are required:

LS311 or 312

Spanish Composition and
Conversation

LS324

Spoken Spanish

LM410

Methods and Materials for Bi-
lingual Education and FLES

LS411

Advanced Spanish Composi-
tion and Stylistics

LM420

Methods and Materials in En-
glish as a Second Language

LS430

Spanish for the Bilingual
Teacher

CONCENTRATIONS

Requirements for Urban Specialization Concentration

BLOCK A—Required:

EL220U

Workshop in Urban Education

EL221U

Curriculum in the Urban
School

BLOCK B—Urban education students select any twelve credit hours from the following topics:

1.

The family

2.

The community

3.

The child in the community

4.

Afro-American studies

5.

Bilingual education

6.

ESL (English as a Second Lan-
guage)

School Library Science Concentration

Students wishing to obtain state certification as a school librarian should enroll in the following courses and register for EL400ZL:

EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL364	Reference and Bibliography Sources in the School Library
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials
EL462	Organization and Administration of the School Library
E321	Media Center Literature for Children

Reading Concentration

*EL311	Comm. Arts—Reading K-P
**EL321	Comm. Arts—Reading Elem.
EL331	Reading for the Mature Learner
***EL335	Individualized Reading
***EL336	Alternate Approaches to Reading
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL401	Remedial Reading
E321	Literature for Children

**Elementary majors may take the course as an elective.*

***Early childhood majors may take the course as an elective.*

****Pending approval of the College Curriculum Committee.*

All courses meet every semester.

EL210 PRINCIPLES AND CURRENT TECHNIQUES—PRIMARY

This course develops skills in lesson planning, unit construction, methods and materials used in each of the primary grades. The history of primary education, organizational patterns and curricula are studied.

*EL217 OBSERVATION

2.S.H.

The purpose of this course is to place students in a classroom with young children to determine methods and materials used in helping children learn.

EL220U WORKSHOP IN URBAN EDUCATION

The purpose of this course is to involve the student early in his career in the total environment of the urban school. Students will spend one morning a week in the urban school serving as aides, tutors, clerical assistants, library assistants, or in other services essential to the functioning of the school. This experience will be followed by a seminar to help clarify learnings, values, and insights gained through the experiences. This seminar will also be used to acquaint the student with the community agencies—housing, welfare, recreation, etc.—which affect the life of the child. *Open to second semester freshmen and first semester sophomores or by permission of the department chairperson.*

EL221U CURRICULUM IN THE URBAN SCHOOL

Prerequisite: EL220U. Learning experiences will be provided in this course to help the student understand the basis for constructing curriculum based on the needs of the child in his particular urban environment. Various curricular organizational structures will be studied and followed by guided field experts to observe and evaluate current patterns. Curricular designs will include the study of open classroom, team approaches, individual instruction, programmed learning and differentiated staffing. Experience will be drawn from environmental setting. At the completion of this course, the student will gain competence in designing curriculum using many innovative and creative approaches which will be designed to help the child achieve in his particular environment.

EL223 PRINCIPLES AND CURRENT TECHNIQUES OF TEACHING

This course introduces the student to the curriculum of the elementary school. It includes planning of lessons, units, selection of materials, various methods, and classroom organizations. Student will work in a laboratory school.

*EL227 OBSERVATION

2.S.H.

The purpose of this course is to provide the student with classroom practices and materials.

**Pending approval of the College Curriculum Committee.*

EL311 COMMUNICATIVE ARTS—READING (Early Childhood)

This course introduces the student to reading readiness and methods and materials commonly used in teaching reading to young children in public schools.

EL312 COMMUNICATIVE ARTS—LANGUAGE (Early Childhood)

This course deals with helping children develop the various language arts skills as creative tools of communication. Concentration centers on children in kindergarten and the early grades.

EL313 PRINCIPLES AND CURRENT TECHNIQUES—KINDERGARTEN AND PRESCHOOL

This course introduces the student to the history of preschool education. It focuses on child-centered education through the kindergarten level.

EL318 SCIENCE AND SOCIAL STUDIES METHODS

This course focuses on materials, methods, and objectives useful in designing meaningful learning experiences in these areas.

EL321 COMMUNICATIVE ARTS—READING (Elementary)

Prerequisite: EL223. The primary emphasis is on developmental reading at each of the six elementary grades.

EL322 COMMUNICATIVE ARTS—LANGUAGE (Elementary)

Prerequisite: EL223. Listening, writing and speaking as areas of communication are the main emphases of this course.

EL323U PRINCIPLES AND METHODS IN URBAN EDUCATION

Prerequisite: EL220U. Examines several topics of current concern in the practice of urban education. Analysis of the urban schools with emphasis on re-evaluating objectives, methodology and content. Offers the student additional insights and realistic understanding of the various forces and factors which operate within the urban schools. Classwork is accompanied by visits and discussions in an effort to expand concepts and experiences. Individual work will help the student formulate a position about urban education and elements of his anticipated role in urban education.

EL324U METHODS AND MATERIALS FOR TEACHING READING AND LANGUAGE ARTS IN URBAN SCHOOLS 6S.H.

Prerequisite: EL323U. This course will be taught in a three-hour block with clinical experiences in an open school. The school will serve as a learning center where participating students will work in a team teaching situation with college faculty and school faculty where they will have an opportunity to combine theory with practical application. *Two semesters.*

EL325 MEDIA MATERIALS FOR ELEMENTARY CLASSROOM LEARNING: SELECTION-EVALUATION-UTILIZATION

Prerequisite: EL323. This course recognizes the increasing role that media materials are playing in the education of today's child. Prospective elementary school teachers will be introduced to a wide range of audio and visual materials available on the educational market (filmstrips, slides, transparencies, films, tapes, multi-media kits). Through such exposure and background information based on underlying philosophical and psychological theories and pertinent research data, the student will be able to select materials for specific learning situations based on appropriate evaluation techniques. He should also be able to integrate and utilize these materials successfully in any teaching learning environment.

EL328 SOCIAL STUDIES METHODS

Prerequisite: EL223. An examination of the methods and materials basic to carrying on a program in social studies for children in each of the six elementary grades.

EL328U SOCIAL LEARNINGS IN THE URBAN SCHOOL

Prerequisite: EL323U. Emphasis will be upon the behavioral sciences and how they may contribute to providing urban children with a better understanding of themselves and their fellow man. Considerable attention will be given to process-oriented social education with particular focus on the processes of decision-making, attitude formation and value clarification. Clinical experiences in selected urban schools will be an integral part of the learning experience and classes will meet from 8:30-11:30 once a week throughout the semester.

EL329 SCIENCE METHODS

Prerequisite: EL223. An examination of the methods and materials basic to teaching a program in science for children in each elementary grade.

EL329U SCIENCE METHODS IN THE URBAN SCHOOL

An examination of the methods and materials basic to teaching a meaningful program in science for children in an urban environment. This course will include work in an urban classroom with children of varying ages.

EL330 CULTURAL AND HISTORICAL PERSPECTIVES

Designed to give the necessary background for developing knowledge, understanding, and attitudes toward times considered significant in the history of our country, this course is good preparation for developing understandings about celebrations and holidays.

EL331 READING FOR THE ABOVE-AVERAGE CHILD

This course will build on the general methods of teaching reading in preparing teachers to plan for the above-average reader in the elementary grades. Emphasis will be on individualizing the reading program, building independence in the content areas, research and study skills, appreciating the literature of this and other cultures, together with improving comprehension levels and questioning skills. Practice in working with above-average readers will be an essential part of this course. Superior children must be stimulated to read to the capacity.

EL362 SEMINAR IN CREATIVE MATERIALS AND CURRICULUM RESOURCES IN THE ELEMENTARY SCHOOL

Prerequisite: EL223 or EL210. A work-study investigation of creative materials and basic instructional and school library resources for the elementary teacher. This course will emphasize book selection and classification methods, bibliography, and educational games and toys. Special focus will be placed upon the psycho-social textual-moral demands of juvenile materials.

EL364 REFERENCE AND BIBLIOGRAPHY SOURCES IN THE SCHOOL LIBRARY

Prerequisite: EL362 or ED335. A study and evaluation of basic reference sources and bibliographical tools used in the school library. Magazines, newspapers and information files will also be surveyed. Chief emphasis will be placed upon the philosophical, organizational, and administrative aspects of research techniques and reference services.

EL366 CLASSIFICATION AND CATALOGING OF PRINT AND NON-PRINT INSTRUCTIONAL MATERIALS

A discovery of the fundamentals of classification and descriptive and subject cataloging. Special problems in the comparative study of Dewey, Library of Congress and other classification codes will be covered. Special attention will be given to non-print materials, serial publications, and technical processing operations.

EL400 STUDENT TEACHING AND SEMINAR

15 S.H.

A laboratory course of 16 weeks duration providing full-time student teaching in a public school. It is the responsibility of each student to fill out an application for student teaching placement by the end of his fifth term.

EL400LM STUDENT TEACHING FOR ELEMENTARY EDUCATION URBAN STUDENTS WITH BILINGUAL MINORS

Students will spend half their time in an elementary classroom and half in a classroom with children who speak a native language.

EL400ZL PRACTICUM IN SCHOOL LIBRARY-MEDIA EDUCATION AND STUDENT TEACHING

15S.H.

This provides the student with a supervised, full-time practicum in a real school library laboratory experience. Planned observations, field trips, special speakers and studies are included. Half semester will be spent in a school library and half semester in a regular elementary classroom.

EL401 REMEDIAL READING

Prerequisites: EL223, EL321 and EL322 for elementary majors; EL210, EL311 and EL312 for kindergarten-primary majors. Course is designed for seniors who want to further their knowledge of reading. Emphasis will be on children with reading problems. Each student will spend part of his time tutoring a child with reading disabilities two hours weekly (two one-hour sessions).

EL422 EDUCATIONAL MEASUREMENT

2S.H.

A survey of measurement and evaluation procedures as they apply to the day-to-day activities of the elementary school teacher.

EL462 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL LIBRARY MEDIA CENTER

An overview of library management principles with special regard to objectives, physical plant, staffing, scheduling, book selection, policies and acquisition. Techniques for relating the library to the total school program as well as case study techniques will be investigated.

ENGLISH

Richard S. Tyrell, Chairman

Professors Green, Howe, Kenney, Kenosian, Lerch, Petronella, Tyrell. Associate Professors Casey, Danker, Foley, Gainor, H. Gormley, Hafford, Kean, Kelly, Mansfield, Rosenthal, Whitehead. Assistant Professors Bertone, Bufalini, Connelly, Connor, Donovan, Ernest, Griffin, Ivers, Jurich, Lally, Manly, McQuade, Moon, Morley, Nelson, Otlewski, Remick, Ryan, Shea, Tobin, Travers, Walsh, Wolf. Instructors Blazyk, Gordon, A. Gormley, Schwartz, Shaw, Thornton, Tillona, Tommasini.

The Department of English offers to all students instruction in writing and speech, and introductory courses in British and American Literature. It further offers courses in linguistics and in literature, by period or type, from Chaucer to the present day.

The English composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains a grade of 4.0 in E101, he may begin the literature sequence in the second semester. All students must successfully complete E101 and then E102, English Composition, before taking courses in literature.

Students may satisfy the speech requirement by passing a proficiency examination or by completing E103, Effective Speech. Students should take the proficiency examination during their sophomore year, and they should not, in any case, postpone the examination beyond their junior year.

The speech proficiency examination is given at the beginning of each semester. To be eligible to take this examination, the student must register for the *E103—Test Only* section. The examination has a written and oral section. The written section, given to registered students as a group, tests the student's knowledge of the speaking process, types of public speeches and effective delivery skills. The oral section, administered individually during the term, tests the student's ability to read aloud and to speak.

The requirement for the B.A. or B.S. major concentration shall consist of 36 hours taken in the Department of English, exclusive of E101-E102, English Composition, and E103, Effective Speech. All student majoring in English must take the two semester survey of English Literature (E201-E202) and the two semester survey of American Literature (E205-E206). E433 is required of English majors in the teaching curricula; E434 is required of those in the non-teaching curricula and strongly recommended for those in the teaching curricula. The Department of English also recommends that students majoring in English study a modern language.

The requirement for the B.A. or B.S. minor concentration shall consist of 21 hours taken in the Department of English, exclusive of E101-E102, English Composition. All students minoring in English must take the two semester survey of English Literature (E201-E202) and five upper division electives selected with the approval of a departmental advisor.

Students are urged to consult departmental advisors before determining course selection.

The department has an Honors Program which is open to qualified majors. To enroll, a student must first consult with the Director, and then register at the beginning of the second semester of his junior year for E490, Special Topics in English. Upon successful completion of E490 and a long, carefully researched paper, a student is graduated with honors. The program is especially valuable for those students who are planning to take future graduate work in English.

All courses meet every semester unless otherwise indicated.

COMPOSITION COURSES**E100 ENGLISH FUNDAMENTALS**

A basic course emphasizing grammar, general spelling principles, vocabulary building, basic sentence structure and paragraph development. Reading related to establishing fundamental writing skills. *This course does not satisfy the English Composition requirement.*

E101 ENGLISH COMPOSITION I

Review of formal grammar, training in sentence structure and paragraph development, and instruction in the writing of expository themes. Reading related to the goals of the course.

E102 ENGLISH COMPOSITION II

A continuation of E101.

E201 BRITISH WRITERS I

A study of selected works from the Anglo-Saxon, Medieval and Renaissance periods through Milton.

E202 BRITISH WRITERS II

A study of selected works beginning with Dryden in the Restoration through the eighteenth, nineteenth, and twentieth centuries.

E203 MASTERPIECES OF WESTERN LITERATURE I

Readings and discussion of selected works from classical antiquity through the Renaissance.

E204 MASTERPIECES OF WESTERN LITERATURE II

Readings and discussion of selected works from the Enlightenment to the present.

E205 AMERICAN WRITERS I

A study of American writers from the colonial period up to Whitman.

E206 AMERICAN WRITERS II

A study of American writers from Whitman to the present.

BRITISH LITERATURE COURSES (listed chronologically)**E312 OLD AND MIDDLE ENGLISH LITERATURE (Beginnings to 1500)** (Spring)

Study in translation of selected masterpieces in various genres, exclusive of Chaucer, including *Beowulf*, *Sir G. wain and the Green Knight*, *Piers Plowman*, Malory's *Morte d'Arthur* (in part), romances, ballads, lyric poems, plays.

E315 CHAUCER I (Fall)

Minor works and *Troilus* in Middle English.

E316 CHAUCER II (Spring)

The *Canterbury Tales* in Middle English.

E313 RENAISSANCE LITERATURE (1500-1603) (Spring)

A study of the major non-dramatic works of the sixteenth century, emphasizing the works of More, Sydney, Spenser, Shakespeare, and Donne.

E301 SHAKESPEARE I: TRAGEDIES

Selected tragedies of Shakespeare.

E302 SHAKESPEARE II: COMEDIES AND HISTORIES

Selected comedies and history plays of Shakespeare.

E410 ELIZABETHAN AND JACOBAN DRAMA (1580-1642) (Fall)

Reading of major dramas of the Elizabethan and Jacobean periods, exclusive of Shakespeare, emphasizing the works of Marlowe, Jonson, and Webster.

E411 EARLY SEVENTEENTH CENTURY LITERATURE (1600-1660) (Fall)

The major writers of the periods emphasizing Donne and the metaphysical poets, Jonson and the classical poets, and early Milton.

E310 MILTON (Fall)

Horton poems; *Areopagitica* and other prose works; sonnets; *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*.

E412 RESTORATION DRAMA (1660-1700) (Spring)

Study of the plays of Congreve, Wycherley, Dryden, and other major playwrights of the period.

E311 RESTORATION AND AUGUSTAN LITERATURE (1660-1749) (Fall)

Major writers of the periods, exclusive of Milton, emphasizing Dryden, Pope and Swift.

E402 LATE EIGHTEENTH CENTURY LITERATURE (1740-1800) (Spring)

Study of Johnson, Boswell, Blake, Burns, and others.

E330 THE EIGHTEENTH CENTURY NOVEL (1722-1816) (Fall)

Study of the English novel as it developed between DeFoe's *Moll Flanders* and Scott's *Old Mortality*, including novels by Richardson, Fielding, Smollet, Sterne, Walpole, and Austen.

E303 ROMANTIC POETRY

Study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley and Keats.

E305 NINETEENTH CENTURY PROSE I (Fall)

Study of the novels of Austen, Thackeray, Dickens and Emily Bronte, and the major works of Carlyle, Macaulay, Mill, and Newman.

E306 NINETEENTH CENTURY PROSE II (Spring)

Study of the novels of Meredith, George Eliot, Trollope, and Hardy, and the major prose works of Arnold, Ruskin, Morris and Pater.

E404 VICTORIAN POETRY (Spring)

Study of the poetry of Tennyson, Browning, Arnold, the Rossettis, Morris, Swinburne, Meredith, Hardy and Hopkins.

AMERICAN LITERATURE COURSES (listed chronologically)**E425 EARLY AMERICAN LITERATURE (Spring)**

Study of selected writers and movements of thought in the colonial period.

E403 EMERSON, THOREAU AND TRANSCENDENTALISM (Spring)

Study of American Romantic idealism, including social and intellectual movements of the first half of the nineteenth century.

E408 HAWTHORNE, MELVILLE AND JAMES (Spring)

Reading and discussion of the major works.

E422 TWAIN, HOWELLS AND THE RISE OF REALISM (Fall)

Twain's chief works. Consideration of his defender in Boston, W.D. Howells. The realists and naturalists: Garland, Crane, Norris, London.

E416 BLACK AMERICAN LITERATURE I (Fall)

Study of major works of black American literature from slavery up to the Harlem Renaissance, including folktales and slave narratives.

E417 BLACK AMERICAN LITERATURE II (Spring)

Study of major works of black American literature from the Harlem Renaissance to contemporary writers, from Langston Hughes to Don L. Lee.

MODERN LITERATURE COURSES**E307 MODERN DRAMA I (Fall)**

Study of major modern dramatists and their work starting with Ibsen.

E308 MODERN DRAMA II (Spring)

A continuation of E307, emphasizing recent dramatists and trends in drama. May be taken by students who have not taken E307, although E307 offers desirable preparation.

E406 MODERN NOVEL

Analysis of the novel as an art form and the study of ten notable modern novels.

E407 MODERN SHORT STORY

Analysis of the short story as an art form and the study of selected modern short stories.

E415 MODERN IRISH WRITERS (Spring)

Study of the poetry, drama, and fiction of major and minor writers from Yeats to Devlin.

E427 MODERN POETRY I (Fall)

Study of major poets beginning with the early work of Pound through the 1950's, including representative figures of each major movement of the period.

E428 MODERN POETRY II (Spring)

Study of major contemporary British and American poets from the 1950's to the present.

E492 TOPICS IN TWENTIETH-CENTURY FICTION: SEMINAR (Spring)

An intensive study of selected authors and topics reflective of the contemporary scene. Reports will be given and conferences held.

THEME AND GENRE COURSES

English

E225 THE ENGLISH BIBLE (Fall)

A survey of the literature of the Old and New Testaments, with special attention to the genres and to the place of the Bible in English literature.

E314 LITERARY CRITICISM (Fall)

A course in criticism intended primarily for English majors, considering the vocabulary of criticism through a diagnostic and topical approach to modes (heroic, tragic, lyric) and techniques (classicism, romanticism, symbolism, myth).

E321 LITERATURE FOR CHILDREN

A survey of the field of children's literature providing a standard of judgment for evaluation of children's books.

E360 WOMEN AND LITERATURE (Spring)

Study of the role of women as it appears in the works of representative male writers, and a study of the works of major women writers, focusing primarily on the 19th and 20th centuries but briefly surveying earlier periods.

E381 LAW AND LITERATURE (Spring)

An exploration in four genres—drama, novel, poetry and essay—of the role of law in determining and fixing punishment for crimes whose moral implications far outreach the law.

E419 FOLKLORE (Fall)

An introductory study of the major forms of folklore including the folktale, myth, folksong, riddle, superstition, proverb, and children's folklore. Current trends in folklore will be considered. Readings in English from selected international folk sources. Field trip.

E420 BALLAD AND FOLKSONG (Spring)

A survey of the scholarship in ballad and folksong studies from the 19th century to the present. In-class concerts.

WRITING, LANGUAGE, AND STUDIO COURSES

E210 WRITING LABORATORY

Preparation of weekly short papers or scripts, to be read and evaluated in class. These shorter forms of writing will embrace the straight news story, the feature, the editorial, the critical review, and advertising copy. Open to juniors and seniors only.

E322 ADVANCED WRITING I (Fall)

For students interested in doing considerable expository and creative writing. The course also includes related reading in contemporary and classical works.

E323 ADVANCED WRITING II

Prerequisite: E322. Advanced expository and creative writing.

E324 CREATIVE WRITING: POETRY (Fall)

Course work will include writing exercises in various forms and genres, exercises in the development of a personal voice, and a substantial amount of reading poetry and criticism.

E340 APPLIED LINGUISTICS (Spring)

Review of recent developments in linguistic theory and their practical relevance to the field of English.

E430 EDITORIAL AND PUBLISHING TECHNIQUES (Spring)

The course will introduce its students to some of the specific, basic skills which are required in publishing. Emphasis is on editing procedures and on the reaching of an overall understanding of the publishing process from manuscript selection and editing through composition, printing and binding. Students will consider editorial techniques and responsibilities.

E433 STRUCTURE OF THE ENGLISH LANGUAGE

Designed for English majors who plan to teach English at the elementary or secondary level. Containing *review* of the principles of English grammar and exposure of prospective teachers to the linguistic problems they will encounter.

E434 HISTORY OF THE ENGLISH LANGUAGE

A course in the historical development of the English language. Illustrative readings from its various periods.

E490 SPECIAL TOPICS IN ENGLISH (Honors Seminar) (Spring)

Research seminar required of all candidates for honors in English, normally during the second semester of the junior year.

E495 SEMINAR IN SELECTED TOPICS

Open to English majors and minors who have successfully completed E201-E202 and E205-E206. Topics and any additional prerequisites will be announced prior to each term's registration. Past seminar topics have included concentrated study of Melville's *Moby Dick*, Milton, T.S. Eliot, Southern American writers, Mythology, Arthurian legend, and Fielding's *Satire*.

SPEECH AND DRAMA COURSES

E103 EFFECTIVE SPEECH

2S.H.

A performance course offering training for short talks, demonstrations and discussions. See prefatory note, page 00.

E104 ORAL INTERPRETATION OF LITERATURE (Fall)

Study of various forms of literature to help students learn meaningful expression of prose, poetry and drama through oral communications. Intensive work included in the basic principles of voice and diction through exercise, tape recordings and assigned reading. Especially recommended for prospective teachers of English.

E215 PRINCIPLES OF GROUP DISCUSSION (Spring)

Study and application of the major forms of group-centered discussion, stressing those types with learning goals and relevant problem-topics. Analysis of verbal and non-verbal interaction is included.

E350 PRINCIPLES OF DRAMATIC PRODUCTION (Fall)

A study of the play in production as living theatre rather than as literature, including a survey of the development and techniques of the theatre in major theatrical periods with a focus on representative plays.

FOREIGN LANGUAGES AND LITERATURES

Richard W. Newman, Ph.D., Chairman

Professors Adams, Gilkey, Newman, Simeone. Associate Professor Staulo. Assistant Professors Cedargren, Dayag, Girodet, Gonzalez, Mortimer, Ostenson, Walsh.

Courses in French, German, Italian and Spanish, offered by the Department of Foreign Languages, are designed to meet the needs of three classes of students: (a) those who wish to fulfill the foreign language requirement for the B.A. degree; (b) those who wish to take foreign languages for general cultural purposes; and (c) those who wish to major or minor in a foreign language. At present, no major or minor is being offered in Italian. The curriculum, both for those preparing to become teachers and for those intending to pursue graduate studies, is designed to give students an active command of their major language and a broad insight into the corresponding literature and culture. There are many promising careers for foreign language majors in education, business, industry and government.

The Department also offers courses in both theoretical and applied linguistics. Theoretical linguistics, offered as a general cultural elective, is especially recommended to English and foreign language majors. Applied linguistics courses are offered in each of the major languages. For foreign students a special course in English as a Foreign Language is offered. In addition to a course in the Teaching of Foreign Languages in the Secondary School, special courses are offered in the methodology of Foreign Languages in the Elementary School (FLES), Bilingual Education, and English as a Second Language (ESL).

Foreign Language Requirement for the Bachelor of Arts Degree

Foreign Language and Literatures

Candidates for the degree of Bachelor of Arts may satisfy the foreign language requirement by the successful completion of two courses conducted in the foreign language at the advanced level (131-132) or above or by the successful completion of two years' work in one language at college level.

Examples of course combinations satisfying the foreign language requirement for the B.A. degree are:

1. LS111-112 (Elementary Spanish) and LS121-122 (Intermediate Spanish); four courses, 12 semester hours.

2. LG131-132 (Advanced German); two courses, 6 semester hours.

3. LF121-122 (Intermediate French) and LF131-132 (Advanced French); four courses, 12 semester hours.

4. LI111-112 (Elementary Italian) and LI121-122 (Intermediate Italian); four courses, 12 semester hours.

The foreign language requirement for the B.A. degree may also be met by receiving a score of 575 or above in a foreign language achievement test of the CEEB.

Requirements for Majors

Language majors must complete 33 hours in their major language. The following courses are required of all majors:

6 sem hrs.

Composition and Conversation (311-312)

6 sem hrs.

Spoken (324-325)

9 sem. hrs.

Three (3) Literature Courses

3 sem. hrs.

Civilization Course

N.B.: Modifications of these requirements may be made for native speakers of a language.

Teacher preparation candidates must elect LL414, Applied Linguistics, and ED336L, Methods of Teaching Modern Languages in the Secondary School. Language Proficiency Tests are required of all majors and will be administered in the Department. Prospective foreign language majors should consult with the Department Chairman.

Requirements for Minors

Language minors must complete 21 semester hours in their minor language. Course selections should be made with the advice of the Chairman of the Department of Foreign Languages and Literatures and the student's advisor in his own major Department.

BILINGUAL EDUCATION

The Department of Foreign Languages in cooperation with the Department of Elementary Education, Secondary Education and departments with teacher preparation programs at the secondary level offers instruction leading to certification as a bilingual teacher in Massachusetts. It is to be noted that most candidates will be able to receive double certification, as teachers in regular classes and in bilingual classes.

Language proficiency at the native or near-native level is required for Massachusetts bilingual certification. There is no requirement for college courses in the foreign language. Students who already possess proficiency in one of the languages of the Massachusetts bilingual programs (Arabic, Armenian, Chinese, French, Greek, Italian, Portuguese, Spanish) are urged to apply for double certification at the Department of Certification and Placement, State Department of Education, 182 Tremont Street, Boston, Mass. 02111.

Elementary

The student will elect a major in elementary education—urban specialization and a minor in foreign languages. Please consult the requirements for the major under Elementary Education—Urban Specialization. Student teachers in this program will spend half of their time in an elementary school classroom and half of their time in a bilingual class. See EL400LM under Elementary Education.

In foreign languages the bilingual minor will be offered in French and Spanish and the following courses will be required:

FRENCH

LF311 or 312

French Composition and Conversation

LF324

Spoken French

LM410

Methods and Materials for Bilingual Education and FLES

LF411

Advanced French Composition and Stylistics

LM420	Methods and Materials in English as a Second Language
LF430	Advanced French for the Bilingual Teacher
SPANISH	
LS311 or 312	Spanish Composition and Conversation
LS324	Spoken Spanish
LM410	Methods and Materials for Bilingual Education and FLES
LS411	Advanced Spanish Composition and Stylistics
LM420	Methods and Materials in English as a Second Language
LS430	Spanish for the Bilingual Teacher

NOTE: for candidates already possessing native or near-native fluency in any language currently used in a Massachusetts bilingual program (Arabic, Armenian, Chinese, French, Greek, Italian, Portuguese, Spanish) only LM410 and LM420 are required. Language proficiency must be demonstrated in the oral and written test required by the State Bilingual Law.

Secondary

Candidates must have a major in a subject area taught in secondary bilingual programs (Biology, Chemistry, Social Studies, Math, Physics, etc.) and a minor in Secondary Education with one course, LM410 Methods and Materials in Bilingual Education, necessary for Massachusetts Bilingual Certification and offered by the Department of Foreign Languages.

Student teaching will be planned with two stations, one in a regular and one in a bilingual classroom.

All courses meet every semester unless otherwise indicated.

FRENCH

LF111-112 ELEMENTARY FRENCH

Development of basic skills; aural comprehension, oral and written composition, reading ability. *Language laboratory.*

LF121-122 INTERMEDIATE FRENCH

Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*

The preceding courses may be elected, with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN FRENCH (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR A B.A. DEGREE.

LF131-132 ADVANCED FRENCH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LF142 DEVELOPMENT OF READING SKILLS IN FRENCH (Spring 1975)

The course aims at development of reading ability through the study of French construction and idioms, identification of tense and verb form, and building of vocabulary reading in prose and poetry. *Conducted in French.*

LF201 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION I (Fall)

Highlights of French literature through the eighteenth century including the *Song of Roland*, Villon, Rabelais, Moliere, Corneille, Racine, Voltaire and Rousseau. *Conducted in English.*

LF202 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION II (Spring)

Highlights of French literature in the nineteenth and twentieth centuries, including Lamartine, Musset, Balzac, Flaubert, Baudelaire, Gide, Sartre, Camus, Becket. *Conducted in English.*

LF311-312 FRENCH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic French speech and writing.

LF324-325 SPOKEN FRENCH

Discussion and oral reports in French on topics of cultural significance and general interest.

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LF401 LE CONTE ET LA NOUVELLE (Fall 1975)

A study of the short story in French literature from the Middle Ages to the present day with special attention to the evolution of this genre and its correlation with the literary movements of the periods included. Lectures, discussions, readings, and reports. *Conducted in French.*

LF402 THE VOICES OF THE FRENCH SPEAKING WORLD (Fall 1974)

Study of the work of representative authors from Canada, Belgium, French-speaking Africa, Haiti, etc. Lectures, discussions, readings, and reports. *Conducted in French.*

LF403 FRENCH FABLES AND TALES FOR YOUNG AND OLD (Spring 1976)

Study of literary texts as a basis for developing better command of grammatical patterns, vocabulary building and improved pronunciation. Lectures, discussions, readings, and reports. *Language laboratory. Conducted in French.*

LF405 SARTRE AND CAMUS (Spring 1975)

An in-depth study of the two best-known representatives of the Existentialist movement in France. The Major works of both writers will be read, discussed and analyzed. Lectures, discussions, readings, and reports. *Conducted in French.*

LF421 FRENCH CIVILIZATION (Spring)

The course includes the necessary background in history, geography, social institutions and culture for the advanced French student. *Conducted in French.*

LF490 SEMINAR IN FRENCH

With consent of Department Chairman. Special topics of literary research.

GERMAN

LG111-112 ELEMENTARY GERMAN

Development of basic skills; aural comprehension, oral and written composition, reading ability. *Language laboratory.*

LG113-114 SCIENTIFIC GERMAN READING

Training in reading and comprehending scientific texts. Suitable for students majoring in natural and social sciences.

LG121-122 INTERMEDIATE GERMAN

Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*

The preceding courses may be elected with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN GERMAN (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LG131-132 ADVANCED GERMAN

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LG201 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION I (Fall 1975)

A study of major works by Worfram von Eschenbach, Goethe, Schiller, Kleist, Buechner and Nietzsche. *Conducted in English.*

LG202 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION II (Spring 1975)

A study of major works by Kafka, Mann, Brecht, Hesse, Grass and Frisch. *Conducted in English.*

LG311-312 GERMAN COMPOSITION AND CONVERSATION

Training in rapid and idiomatic German speech and writing.

LG324 SPOKEN GERMAN

Discussions and oral reports in German on topics of cultural significance and general interest.

- LG401 GERMAN LITERATURE OF THE EIGHTEENTH CENTURY** (Spring 1975)
A study of the Classical periods with special emphasis given to novel and drama. Lectures, discussions, readings, and reports. *Conducted in German.*
- LG402 GERMAN LITERATURE OF THE NINETEENTH CENTURY** (Fall 1975)
A study of the novel, drama, lyric poetry and novelle of the Romantic and Realist periods. Lectures, discussions, readings, and reports. *Conducted in German.*
- LG403 GERMAN LITERATURE OF THE TWENTIETH CENTURY** (Spring 1976)
The course includes a study of the movie, drama, and lyric poetry of the contemporary period. Lectures, discussions, readings, and reports. *Conducted in German.*
- LG422 GERMAN CIVILIZATION** (Fall 1974)
A study of German history, geography, social institutions and contemporary German culture. *Conducted in German.*
- LG490 SEMINAR IN GERMAN**
With consent of Department Chairman. Special topics of literary research.

ITALIAN

- LI111-112 ELEMENTARY ITALIAN**
Development of basic skills: aural comprehension, oral and written composition, reading ability. *Language laboratory.*
- LI121-122 INTERMEDIATE ITALIAN**
Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*
- NOTE: ANY 2 COURSES CONDUCTED IN ITALIAN (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.
- LI131-132 ADVANCED ITALIAN**
Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*
- LI311-312 ITALIAN COMPOSITION AND CONVERSATION**
Training in rapid and idiomatic Italian speech and writing.

LINGUISTICS

- LL120-121 ENGLISH AS A FOREIGN LANGUAGE**
Designed for non-native speakers of English in order to further their oral and written skills in English.
- LL410 LANGUAGE FIELD SEMINAR**
Individual project at a social or educational agency serving a linguistic minority. Weekly seminar, supervision at the agency, report written in the foreign language.
- LL411 INTRODUCTION TO LINGUISTICS**
The nature and origin of language. Language and grammar. The history of linguistics and its new directions. Principles of language analysis: phonetics, phonemics, morphology and syntax.
- LL414 APPLIED LINGUISTICS**
Linguistic analysis of the phonology, morphology, and syntax of English and a systematic comparison of its structures with French, German, and Spanish.

METHODOLOGY IN SECOND LANGUAGE

- ED336L METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL**
See description under Secondary Education.

ED430 STUDENT TEACHING AND SEMINAR

See description under Secondary Education.

6S.H.

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ED440 STUDENT TEACHING AND SEMINAR

See description under Secondary Education.

12S.H.

LM410 METHODS AND MATERIALS FOR BILINGUAL EDUCATION AND FLES

Introduction to the teaching of Foreign Languages in the Elementary School and the teaching of subject matter to students who speak a language other than English.

LM420 METHODS AND MATERIALS IN ENGLISH AS A SECOND LANGUAGE

This course gives prospective teachers in urban centers the practice of teaching English to non-English speakers. A brief study of second language learning and realistic observation and participation in community classrooms.

LS111-112 ELEMENTARY SPANISH

Elementary conversational language practice, basic grammar patterns with development of basic skills. The student is also introduced to the Hispanic way of life through class discussions. *Language laboratory.*

LS121-122 INTERMEDIATE SPANISH

To facilitate communication within the urban setting. Oral practice, review of Spanish grammar. Lively, contemporary short story readings and occasional field trips. *Language laboratory.*

The preceding courses may be elected with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN SPANISH (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY THE FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LS131-132 ADVANCED SPANISH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LS142 DEVELOPMENT OF READING SKILLS IN SPANISH (Spring)

Techniques for examining and appreciating literary texts.

LS201 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION I (Fall)

Courage passion, ideals, intrigue in the literary portraits of El Cid, La Celestina, Lazarillo, Don Quijote and Don Juan. *Conducted in English.*

LS202 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION II (Spring)

The anguish of nineteenth and twentieth century Spain portrayed by such authors as Becquer, Galdos, Unamuno, Valle-Inclan, Garcia Lorca, Juan Ramon Jimenez, Cela, and Ramon Sender. *Conducted in English.*

LS311-312 SPANISH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic Spanish speech and writing.

LS324-325 SPOKEN SPANISH

Discussion and oral reports in Spanish on topics of cultural significance and general interest.

LS401 THE DON JUAN TRADITION IN HISPANIC LITERATURE (Spring 1976)

A study of the various works exemplifying the Don Juan theme from Tirso de Molina to the present. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS402 PROSE WRITERS OF SPANISH LITERATURE (Fall 1975)

A study of the major prose writers in Spanish literature from the Middle Ages to our day. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS403 THE LYRIC TRADITION IN HISPANIC LITERATURE (Spring 1975)

A panoramic view of the evolution of the lyric tradition in Spain and Spanish America. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS405 SPANISH AMERICAN LITERATURE (Fall 1974)

Representative readings from the colonial period to the present. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS411 ADVANCED SPANISH COMPOSITION AND STYLISTICS (Spring)
Introduction to the problems of style and a study of selected grammatical topics. Translations to and from Spanish.

LS422 HISPANIC CIVILIZATION (Spring 1976)
A study of the history, geography, social institutions and contemporary Hispanic culture. *Conducted in Spanish.*

LS423 SPANISH AMERICAN CIVILIZATION (Spring 1975)
A study of the history, geography, social institutions and contemporary culture of the Spanish American republics. *Conducted in Spanish.*

LS430 SPANISH FOR THE BILINGUAL TEACHER (Spring)
A course for advanced students of Spanish dealing with non-literary language, geography, history, economics, science, mathematics and especially the terminology of common elementary and secondary school subjects.

LS490 SEMINAR IN SPANISH
With consent of Department Chairman. Special topics of literary research.

INDIVIDUALIZED INSTRUCTION IN FOREIGN LANGUAGES NOT OFFERED IN REGULAR CLASSES

The following courses are intended for students interested in acquiring an introductory knowledge of foreign languages not usually offered. They will be individualized with emphasis on the spoken language and cassette tape recordings will be available for duplication; limited work in reading and writing will be presented.

LU111-112 ELEMENTARY RUSSIAN
Development of aural, oral skills, reading and writing in Russian. To be elected with special permission of the Department Chairman.

LU121-122 INTERMEDIATE RUSSIAN
Grammar review, oral practice, extensive reading, simple written composition.

LV111-112 ELEMENTARY CHINESE
Development of aural, oral skills, reading and writing in Chinese. To be elected with special permission of the Department Chairman.

LV121-122 INTERMEDIATE CHINESE
Grammar review, oral practice, extensive reading, simple written composition.

LW121-122 ELEMENTARY HEBREW
Development of aural, oral skills, reading and writing in Hebrew. To be elected with special permission of the Department Chairman.

LW121-122 INTERMEDIATE HEBREW
Grammar review, oral practice, extensive reading, simple written composition.

LX111-112 ELEMENTARY GREEK
Development of aural, oral skills, reading and writing in Greek. To be elected with special permission of the Department Chairman.

LX121-122 INTERMEDIATE GREEK
Grammar review, oral practice, extensive reading, simple written composition.

LY111-112 ELEMENTARY PORTUGUESE
Development of aural, oral skills, reading and writing in Portuguese. To be elected with special permission of the Department Chairman.

LY121-122 INTERMEDIATE PORTUGUESE
Grammar review, oral practice, extensive reading, simple written composition.

LZ111-112 ELEMENTARY ARMENIAN

Development of aural, oral skills, reading and writing in Armenian. To be elected with special permission of the Department Chairman.

LZ121-122 INTERMEDIATE ARMENIAN

Grammar review, oral practice, extensive reading, simple written composition.

*Foreign Languages
and Literatures,
History*

HISTORY

John C. Weston, Ph.D., Chairman

Professors Bernard, Burke, Grozier, Hull, Masse, Moon, Scanlon, Weston. Associate Professors Andreini, Beeke-Levy, Bowles, Dunbar, Foley, Ladd, Power, Prentiss, Shipkey, Shively, Sullivan, Thorne, Tinkham. Assistant Professors Anciello, Bartson, Dalton, Devenaux, Doon, Ehrlich, Fox, Hafkin, Humphreys, McMullin, Quitt, Reynolds, Rudolph, Smith.

The Department of History offers programs for major concentration for the B.A. and B.S. degrees in history. History majors are required to take H101 and H102 or one of its equivalents: H103-104, H105-106, H107-108, H109-110, H111-112. However, no more than one six semester hour course sequence on the 100 level may be taken for credit as a history major or minor. A history major must also take H201-202 and a minimum of 24 elective hours in history.

History minors are required to take H101-102 (or its equivalent), H201-202, and 9 elective hours in history.

The Department of History participates in the Honors Program, and recommends to those properly certified, membership in the national historical society of Phi Alpha Theta-Mu Iota Chapter.

Courses on the 100 and 200 level are open to all undergraduates. Courses on the 300 level are open to sophomores, juniors and seniors. Courses on the 400 level are open only to juniors, seniors and graduate students. Graduate students may take other history department courses with permission of the history department chairman.

All courses meet every semester unless otherwise indicated.

H101 HISTORY OF WESTERN CIVILIZATION I

A survey of the development of Europe from the ancient civilizations to 1715. Emphasis upon social and political institutions.

H102 HISTORY OF WESTERN CIVILIZATION II

A survey of the development of Europe from 1715 to the present with an emphasis upon social and political institutions.

H103 HISTORY OF IDEAS I

An analysis of several major works which helped shape the mind of the West before 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H104 HISTORY OF IDEAS II

An analysis of several major works which have helped shape the mind of the West since 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H105 WORLD HISTORY I

Selected topics in the early history of Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H106 WORLD HISTORY II

Selected topics in the history of modern Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H107 HISTORY OF WESTERN CULTURE I (ANCIENT CIVILIZATION TO 1715)

A survey of European history with an emphasis on cultural factors with an extensive use of films and recordings.

H108 HISTORY OF WESTERN CULTURE (1715 TO PRESENT)

Continuation of H107.

H109 GREAT PERSONALITIES IN WESTERN HISTORY TO 1750

A biographical survey of selected individuals whose lives had a significant impact on the history of Western Civilization.

H110 GREAT PERSONALITIES IN WESTERN HISTORY SINCE 1750

Continuation of H109.

H111 GREAT CITIES OF WESTERN CIVILIZATION I

A history of urbanization and the ways in which cities affected the development of institutions in western civilization to the 18th century.

H112 GREAT CITIES OF WESTERN CIVILIZATION II (1750 TO PRESENT)

Continuation of H111.

H201 AMERICAN HISTORY TO 1865

The course will focus on selected topics from the colonial period through the Civil War.

H202 AMERICAN HISTORY SINCE 1865

The course will focus on selected topics from Reconstruction to the present.

H301 SURVEY OF ANCIENT CIVILIZATION TO 600 B.C.

Civilization's birth and progress in Mesopotamia, Egypt, Canaan, Minoan Crete, Homeric Greece, emphasizing the role of cities. Social, intellectual life seen through literary, religious sources. Extensive slides stressing art, archaeological digs. Semester to be offered will be announced.

H303 HISTORY OF GREECE (Fall)

This course covers the history of Greece from the twelfth century B.C. to the Roman occupation.

H304 SURVEY OF ROMAN CIVILIZATION (Spring)

Roman social, intellectual life in the context of historical events from the city's origins to the Late Empire. Extensive slides emphasizing art, architecture, archaeological field work.

H305 THE EARLY MIDDLE AGES (Fall)

A study of the Mediterranean world and northern Europe, focusing on the problem of transition from Rome to the Middle Ages and the successors to Rome; the Byzantine, Moslem, and Carolingian Empires; 200 A.D.-1000 A.D.

H306 THE HIGH MIDDLE AGES (Spring)

A study of Western Europe, c. 1000-1450, focusing on feudal society; the medieval political, economic, and cultural Renaissance; and the problem of the decline of the Middle Ages.

H310 THE RENAISSANCE AND THE REFORMATION (Spring)

The political, literary, and artistic phases of the Renaissance and an examination of the religious aspects of the Reformation.

H311 THE SEVENTEENTH CENTURY (Fall)

Selected topics concerned with the question of the seventeenth century as the first modern era. Topics include: Absolutism in France vs. Constitutionalism in England, the Scientific Revolution and its social and intellectual consequences, the emergence of the bourgeoisie.

H312 THE EIGHTEENTH CENTURY (Spring)

This course is concerned with the eighteenth century's attempt to understand man and his struggle to achieve happiness. Emphasis is placed on ideas and the historical events of the times related to them.

H315 THE HAPSBURG MONARCHY (1815-1918) (Fall)

A course on a principle issue of nineteenth century European history. An interpretation of the central problem of Austria-Hungary: the maintenance of the dynastic/state concept as the nexus of the European state system on the eve of the First World War.

H316 HISTORY OF EASTERN EUROPE SINCE 1918 (Formerly H321) (Spring)

This course will concentrate on the political, social, and economic developments in Eastern Europe in the interwar periods, and the rise of satellite communism.

H319 EUROPEAN INTELLECTUAL HISTORY: 1600-1815 (Fall 1975)

A study of the scientific, political, and ideological beliefs of the seventeenth and eighteenth centuries, with particular consideration of the seminal minds and their ideas.

H320 EUROPEAN INTELLECTUAL HISTORY SINCE 1815 (Spring 1976)

Among the topics evaluated are romanticism, conservatism, liberal democracy, socialism, Marxism, Darwinism, irrationalism, Freudianism, existentialism, totalitarianism, and the dilemmas of contemporary Europe.

H323 EUROPE IN THE NINETEENTH CENTURY (Fall)

An introduction to the economic, social, and political forces vital to this century, with a study of the national histories prominent at that time.

H324 EUROPE IN THE TWENTIETH CENTURY (Spring)

An analysis of the political, social, economic, and cultural aspects of twentieth century Europe.

H325 SEAPOWERS IN WORLD HISTORY (Fall)

Seapower in connection with Maritime States and peoples is traced as a thread in world history. The course will include an analysis of the various components of seapower.

H326 WOMEN IN WORLD HISTORY (Spring 1975)

Development of role of women in pre-historic societies, women's role and images in monotheistic religions, comparative roles of women in western and non-western societies, with particular emphasis on Africa, Latin America, China. Women in revolutionary societies.

H327 MODERN EUROPEAN IMPERIALISM: 1850-1950 (Fall)

The motives and methods of European imperialism, and selected resistance movements in Africa and India.

H328 WORLD WAR II (Fall)

A study in the nature of total war concentrating on the conflict itself. Having destroyed the old European balance, a global balance of power was created transforming the world politically, economically, socially, and scientifically.

H329 HISTORY OF CONTEMPORARY EUROPE SINCE 1939

The current national developments in Western Europe will be studied after a brief analysis of World War II. Special attention to be given to the social, economic, and cultural trends of recent origin. Semester to be offered will be announced.

H330 EUROPEAN HISTORIOGRAPHY (Fall)

A study of ancient and modern European historians and analysis of historical research methods.

H331 HISTORY OF ENGLAND TO 1689 (Fall)

The Anglo-Saxon period, the Anglo-Norman fusion, the development of law and parliament, the rise of the Tudors, seventeenth century monarchy and revolutions.

H332 HISTORY OF ENGLAND FROM 1689 (Spring)

The late Stuart and Georgian politics; the industrial revolution; the rise of British empire; nineteenth century conservative and liberal politics and ideas; social, imperial, and intellectual change to 1939.

H333 MODERN BRITAIN (Fall 1975)

Social and political crisis before 1914, the Home Front in war, post-war experiments in Labour and Conservative politics, the depression, Chamberlain and Hitler, World War II.

H334 HISTORY OF MODERN ITALY (Spring 1974)

A course emphasizing Italian Nationalism, unification, growth of democracy, fascism, and current social and political developments.

H335 HISTORY OF MODERN GERMANY (Fall)

An in-depth study of major events and the developments in Germany from 1815 to the present.

H336 THE FRENCH REVOLUTION AND NAPOLEON (Fall)

Analysis of the principles, causes, and phases of the French Revolution and the era of the Directory and Napoleonic rule.

H337 FRANCE SINCE 1815 (Spring 1976)

France from the post-Napoleonic period to 1940, with emphasis upon the various regimes of the nineteenth century and the rise and fall of the Third Republic.

H338 HISTORY OF MODERN IRELAND I (1640-1891) (Fall)

Political, social, religious and economic developments in Ireland from the Cromwellian era to the death of Charles Stewart Parnell.

H339 HISTORY OF MODERN IRELAND II (1891-1950) (Spring)

An analysis of the political, social, economic and religious developments in Ireland from the death of Parnell to the era of De Valera. Special emphasis on the evaluation of modern Ulster.

H340 AMERICAN COLONIAL HISTORY

The interrelationships between Europe and British North America from discovery to 1763, and the development of the early American economy, society, and institutions.

H341 AMERICAN REVOLUTION AND CONSTITUTION

Analyzing the break-up of the British colonial system, this course describes the Revolution and the creation of a new nation and federal government, 1763-1790.

H342 THE FEDERALIST ERA: 1790-1815

Centers about the formative years under the United States Constitutions with emphasis on policies encouraged by Hamilton and the early political parties of the Federalists and the Republicans.

H343 NATIONALISM AND SECTIONALISM IN AMERICA: 1816-1850 (Fall)

A study of the significant trends facing young America from the War of 1812 to the eve of the Civil War, with emphasis on the domestic scene.

H344 CIVIL WAR AND RECONSTRUCTION: 1850-1877 (Spring)

The great upheaval in mid-century America: causes, the agony of war, and the legacy of division between sections and races.

H345 HISTORY OF THE OLD SOUTH (Fall)

Analysis of the characteristics of a distinctive southern society, its politics, economy, and culture, from settlement to secession.

H346 HISTORY OF THE NEW SOUTH (Spring)

Covers the nature of southern society, problems, behavior; and its history from Reconstruction to the present, stressing southern alienation from and re-integration into American society.

H348 THE WESTWARD MOVEMENT: 1763-1890 (Spring)

The growth and development of the West, the treatment of American Indians, and the influence of the frontier on the political, cultural, and economic life.

H349 AMERICAN HISTORIOGRAPHY (Spring)

An analysis of historical research and methodology and a study of past and present American historians.

H351 POPULISM AND THE PROGRESSIVE ERA (Spring 1976)

An intensive probe into the development of the American Commonwealth from 1877 to 1920.

H354 UNITED STATES IN THE TWENTIETH CENTURY

Prerequisite: H202. A description and analysis of major events and forces in American history from the Progressive Era through World War II. Special emphasis on social and political themes and on recent historical interpretations.

H359 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898 (Fall)

Analyzes the main forces that have shaped the early development of American foreign policy from 1777 to 1898.

H360 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898 (Spring)

A study of American foreign relations during the twentieth century. The period 1898-1945 will be covered.

H361 BLACK AMERICAN HISTORY TO 1896 (Fall)

The role of Afro-Americans in the development of American life from 1619 to 1896.

H362 BLACK AMERICAN HISTORY SINCE 1896 (Spring)

This course stresses: legal separation, B.T. Washington vs. W.E.B. DuBois, organized protests, desegregation, the civil rights movement.

**H363 SOCIAL HISTORY OF WOMEN IN AMERICA: COLONIAL TIMES
TO THE PRESENT (Spring)**

A study of the role of women in America from the seventeenth through the twentieth centuries, with particular emphasis on the social and intellectual roots of women's support for social reform movements, including efforts to improve the status of women in America.

H365 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES TO 1870 (Fall)
The development of American thought and society with emphasis on the impact of Puritanism, Individualism, and Transcendentalism on the American scene.

**H366 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
SINCE 1870 (Spring)**

A study of transition of the United States to an urban, industrialized society, and the effect on the social, cultural, and intellectual life of the people.

H367 HISTORY OF THE AMERICAN CITY

Historical study of American cities since colonial times with emphasis on current problems. Consideration of the connection of cities with industrialization, technology, education, population change, community planning, culture, transportation, and government.

H368 HISTORY OF AMERICAN LABOR

A historical survey of labor and its place in American life from colonial times to the present. Major emphasis on the founding, history, development and place of labor unions in American history.

H369 THE FAMILY IN THE EARLY MODERN ERA (Spring)

The course will survey the changing structure, function and significance of the family from the middle ages to the twentieth century. It will focus primarily on the European and American colonial families of the early modern era.

H371 HISTORY OF LATIN AMERICA TO 1825 (Fall)

Main focus on the aboriginal American and Spanish background, the conquest and development of colonial Spanish America. Emphasis on social and intellectual growth.

H372 HISTORY OF LATIN AMERICA SINCE 1825 (Spring)

A study of emerging nations of Latin America after independence: the growth of dictatorships, of Indianism, the social and intellectual forces shaping present-day Latin America, especially Argentina, Brazil, Mexico and Peru.

H375 HISTORY OF CANADA

The political, social, economic, and cultural factors from early French and colonial settlements to the present. Semester to be offered will be announced.

H381 HISTORY OF AFRICA TO 1850 (Fall)

Origin of man in East Africa. Development of African civilization, with emphasis on the empires of Egypt, Axum, Kush, Ghana, Mali, Songhai, Lunda-Luba, and Zimbabwe, African trade contacts with Asia, Europe, North America.

H382 AFRICA SINCE 1850 (Spring)

A continental survey of Africa from 1850 to 1938. African states before European takeover. European expansion and conquest. The colonial period, African reactions to colonialism.

H384 HISTORY OF THE MODERN NEAR EAST (Spring 1976)

A survey from 1815 to the present, traces the decline of the Ottoman Empire, rises of Nationalism and the Arab-Israeli conflict.

H391 HISTORY OF EARLY RUSSIA (Fall)

Russian history from the Kievan and Mongolian periods through the Appanage Age and the rise of Imperial Czarism.

H392 HISTORY OF MODERN RUSSIA (Spring)

This survey traces the rise and decline of monarchy since Peter the Great, Russia's external expansion and the revolutions of 1905 and 1917.

H393 HISTORY OF THE SOVIET UNION SINCE 1917 (Fall)

After brief treatment of the final phase of the Imperial Regime and the Provisional Government, the course will survey the political, social, economic, and cultural history of the U.S.S.R. from 1917 to the present.

H395 EARLY EAST ASIAN CIVILIZATION (Fall)

A study of the social, cultural, political and economic institutions of traditional China and Japan and concurrent developments in Korea and Southeast Asia.

H396 CONTEMPORARY EAST ASIAN CIVILIZATION (Spring)

This course will focus on the transformation of China and Japan since 1800, and its impact upon Korea and Southeast Asia.

H411 SEMINAR IN COMPARATIVE HISTORY OF THE UNITED STATES AND LATIN AMERICA (Spring)

A study of selected sources and topics in the social, cultural and intellectual history of the United States and Latin America. Discussion meetings, readings and guided independent research.

H490 SEMINAR IN SELECTED TOPICS (Spring)

Prerequisite: Consent of department chairman. This course emphasizes historiography and the techniques of research and writing in history in preparation for the honors thesis.

MANAGEMENT PROGRAM

James M. Kemp, Ed.D., Director

The objectives of the Bachelor of Science Management Program are to prepare students for management careers in private business and industry, in local, state or federal government, in entrepreneurial enterprises, or for graduate studies in management and related disciplines. It provides a broad view of the management profession and of the impact of other disciplines on this field through combining general education with courses in management and related disciplines. Students who elect this program as their major are encouraged to complete a minor in a related discipline, or an interdepartmental contract minor supporting their specific career objectives or graduate study plans.

This program also encourages transfers from community colleges and other accredited institutions.

Majors or minors in the management program must register in the Office of the Academic Dean (Room 206 Administration Building) to assure the formulation of a program meeting the student's career objectives.

The major in management requires the completion of 36 semester hours of academic work. M120, Basic Statistics or its equivalent is strongly recommended prior to enrollment in the required core courses.

A minor in management requires the completion of PB301, EC102, EC103, MA115, GV306 and two additional courses selected from the core courses or the related courses above for a total of 21 semester hours. Students who have successfully completed a major in business administration or management at a community college are granted an automatic minor in these fields. A contract minor composed of a series of related interdepartmental courses may also be negotiated with major department advisors.

Required Core Courses (27 Semester Hours)

*EC102	Principles of Economics II
EC103	Financial Accounting and Control I
EC104	Financial Accounting and Control II
*EC308	Corporate Finance
*EC312	Marketing
GV306	Business Law
M115	Computer Sciences and Information Systems
PB301	Theory and Principles of Management
*PY230	Organizational Psychology

**The prerequisites for these courses can be met by a careful selection of general education requirements.*

Related Courses (9 Semester Hours)

Selected from designated courses above the introductory level in economics, management, mathematics, political science, psychology, and sociology. At least two departments must be represented.

MATHEMATICS

Seymour Kass, Ph.D., Chairman

Professors Davidson, Freyre. Associate Professors Bennett, Donovan, Kass, Klein, Paquette, Witthoft. Assistant Professors Anderson, Ault, Callahan, Greeley, Herda, Jaffe, Kime, McCarthy, Mueller, Nee, Prendergast, Stick, Truesdell. Instructor Wallace.

Mathematics and science, which are the basis of technology, have a claim on the attention of every citizen. Mathematics, especially, emphasizes the search for critical standards, the effort to distinguish what is enduring from what is transitory, and the patient construction of theory. Thus, in many areas, to think at all is to think like a mathematician.

To help our students develop this capacity and to prepare them for their career goals the mathematics department offers courses in pure and applied mathematics, mathematics education, and computer science. Its programs lead to the B.A. and B.S. degrees.

Major Requirements

A minimum of 36 hours to be distributed as follows:

- (a) all 21 hours in Group I;
- (b) 6 hours in Group II, consisting of M306 or M308, and one of M411, M415, and M416;
- (c) a minimum of 9 hours in Group III, including at least one 400 level course not chosen in (b).

All beginning mathematics majors are required to take the departmental placement examination which is given shortly before each semester. The scores are used as a basis upon which to advise students where to begin their mathematical studies.

Recommendations

All mathematics majors should consult with the Department Chairman in order that an advisor may be assigned to help plan a program of study. M203 and M211 should be taken in the sophomore year.

All mathematics majors should take a course in computer science, as well as Physics 101 and 102.

If you have free electives and intend to continue the study of mathematics at the graduate level, it would be to your advantage to elect as many as possible of the following Group III courses: M203, M407, M409, M410, M411, M412, M415 and M416.

Students who plan to enter secondary school teaching should choose electives from among M111, M203, M301, M335, M400, M408, M410 and M416.

Students interested in the fields of applied mathematics should choose electives from among M111, M203, M312, M400, M402, M409, M413, M416 and M441.

Students who plan a specialty in computer science should choose electives from among M111, M112, M113, M312, M400, M402, M403, M409 and M416.

Prospective candidates for the life insurance industry should choose courses from among M113, M302, M303, M400, M402 and M409.

Minor Requirements

A minimum of 21 hours to be selected from Group I through Group IV.

An elementary education major who wishes to minor in mathematics is advised to choose courses from among M103, M109, M110, M111, M120, M224, M225, M226, M227 and M301.

Mathematics Course Groupings

*Group I: 105, 106, 205, 206, 211, 314

*Group II: 306, 308, 411, 415, 416

Group III: 111, 112, 203, 301, 302, 303, 306, 308, 309, 312, 335, 400, 402, 403, 407, 408, 409, 410, 411, 412, 413, 415, 416, 440, 441, 490

Group IV: 102, 103, 109, 110, 120

Group V: 224, 225, 226, 227

Group VI: 101, 110, 113, 115, 220, 316, 326

The Honors Program

Students who have shown a marked aptitude in mathematics will be invited to join the Honors Program. To graduate with honors in mathematics, the student must take one course at the honors level by arrangement with the Honors Committee and must do independent work in M490 under the supervision of a department member.

**Students may fulfill group requirements according to the catalog in effect at the time of their entrance or any succeeding catalog.*

All courses meet every semester unless otherwise indicated.

M100 BASIC MATHEMATICS

Arithmetic and algebra for students not ready for college mathematics. Admission by recommendation of an advisor. *Not open to mathematics majors and does not satisfy the general education requirement.*

M101 FUNDAMENTAL PRINCIPLES OF MATHEMATICS I

Sets, logic, introduction to the real number system, and applications. *Not open to mathematics majors.*

M102 FUNDAMENTAL PRINCIPLES OF MATHEMATICS II

Prerequisite: M101. Topics from some of the following areas: analytic geometry, number theory, probability, algebra, and computer science. *Not open to mathematics majors.*

M103 ALGEBRA AND TRIGONOMETRY

A review of high school algebra and trigonometry for students not prepared for analytic geometry and calculus. *Not open to any mathematics major who has successfully completed M106.*

M105 ANALYTIC GEOMETRY

Geometry of the plane and 3-space in coordinate and vector style, conic sections, parametric equations, and curve tracing.

M106 CALCULUS

4S.H.

Prerequisite: M105. Limits, continuity, differentiation, and applications of the derivative.

M109 MATHEMATICAL ANALYSIS I

An introduction to the basic ideas of calculus and probability with emphasis on understanding mathematical concepts and applications. *Not open to mathematics majors.*

M110 MATHEMATICAL ANALYSIS II

Prerequisite: M109. The definite integral, fundamental theorem of calculus, methods of integration, applications, continuous and discrete probability. *Not open to mathematics majors.*

M111 INTRODUCTION TO COMPUTER SCIENCE I

Fortran programming language. Topics include: input and output statements, floating and fixed point variables, conditional and unconditional transfer statements, indexing, subscripting, literal input, and flow charting techniques.

M112 INTRODUCTION TO COMPUTER SCIENCE II

Prerequisite: M111. Machine assembly and programming. Emphasis is on the mathematical considerations involved in design and operation of computers.

M113 COBOL PROGRAMMING

COBOL (Common Business Oriented Language), including identification, environment, procedure, and data divisions, with applications to business oriented problems. *May be taken independently of M111.*

M115 COMPUTER SCIENCE AND INFORMATION SYSTEMS

Designed as a one-semester introduction to the use of problem-oriented languages in order to write programs for a computer. Students will prepare and analyze programs to be run on a high speed digital computing system. Lab assignments will be made that emphasize the relevancy of computer information systems to the businessman, layman, or programmer. *Not open to mathematics majors.*

M120 BASIC STATISTICS

An introduction to modern descriptive statistics covering the topics of elementary probability, random variables, expectation, the normal distribution, sampling, estimation, and hypothesis testing. *A knowledge of high school algebra is sufficient. Not open to mathematics majors.*

M203 INTRODUCTION TO LINEAR ALGEBRA

Prerequisite: M105 or equivalent. Real vector spaces, dimension, orthogonality. Systems of linear equations, determinants and Cramer's rule. Matrices and linear transformations, rank and echelon form. *Should be taken in sophomore year.*

M205 CALCULUS II

4S.H.

Prerequisite: M106. The concept of area and integral, the calculus of transcendental and trigonometric functions.

M206 CALCULUS III

4S.H.

Prerequisite: M205. Infinite sequences and series, differential and integral calculus of functions of several variables.

M211 SET THEORY AND LOGIC

Prerequisite: M106. Sets, logic, functions, number systems. This course, which is prerequisite to all advanced work in the department, should be taken in the sophomore year.

M220 BASIC MODERN MATHEMATICS

Set operations, numeration systems, arithmetic algorithms, fractions, percent, and informal geometry. *Recommended for elementary education majors only. Not open to mathematics majors.*

M224 THE STRUCTURE OF NUMBER SYSTEMS I

Logic, elementary set theory, numeration, and the construction and properties of the natural numbers and the integers. *Not open to mathematics majors.*

M225 THE STRUCTURE OF NUMBER SYSTEMS II

Prerequisite: M220 or M224. Construction of the rationals and the reals. Elementary number theory, modular number systems, and some geometry. *Not open to mathematics majors.*

M226 INTUITIVE GEOMETRY

The intuitive study of space, planes, lines, and figures as sets of points with their properties. Coordinate geometry, and the basic concepts of measurement. *Not open to mathematics majors.*

M227 ELEMENTS OF ALGEBRA

Prerequisite: M220 or M225. The basic ideas and structure of algebra with some experimental work. *Not open to mathematics majors.*

M301 MATHEMATICAL DISCOVERY

Various techniques of problem solving, especially appropriate for prospective teachers, but also beneficial to all students. Topics are chosen from algebra, geometry, logic, and number theory.

M302 MATHEMATICS OF FINANCE (Spring)

Prerequisite: M106 or M110. The application of algebra to interest, annuities, bonds, investments and life insurance.

M303 MATHEMATICS OF life insurance (Fall)

Prerequisite: M302. Mathematical theory of life contingencies, mortality tables, annuities, net premiums, reserves, non-forfeiture benefits, and gross premiums.

M306 FUNDAMENTAL CONCEPTS OF GEOMETRY

Prerequisite: M211. An axiomatic treatise, in depth, of Euclidean and some non-Euclidean geometries.

M308 AFFINE AND PROJECTIVE GEOMETRY (Spring)

Prerequisite: M211. A study of the properties of affine and projective geometries and subgeometries. Developed by synthetic and analytic methods.

M309 HISTORY OF MATHEMATICS (Fall 1976)

Prerequisite: M205. The history of elementary mathematics, through calculus. Emphasis on the major developments in the fields of arithmetic, algebra, and geometry, and on contributions of noteworthy mathematicians and epochs.

M312 NUMERICAL ANALYSIS (Spring)

Prerequisites: M111, M205. Finding zeros of functions, numerical differentiation, numerical integration, and numerical solutions of ordinary differential equations.

M314 ABSTRACT ALGEBRA I

Prerequisite: M211. Algebraic structures, emphasizing groups, rings, integral domains and fields.

**M316 METHODS OF TEACHING MATHEMATICS IN THE KINDERGARTEN-
PRIMARY SCHOOL**

2S.H.

Prerequisite: M220 or M225. Methods and materials of instruction appropriate to the teaching of mathematics in grades kindergarten through three.

**M326 METHODS OF TEACHING MATHEMATICS IN THE ELEMENTARY
SCHOOL**

2S.H.

Prerequisite: M220 or M225. Methods and materials of instruction appropriate to the teaching of mathematics in grades one through six.

M335 MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (Fall 1975)

Topics from number theory, polynomial rings over the rational, real, and complex number fields, fundamental theorem of algebra, constructible number fields.

M400 PROBABILITY

Prerequisite: M205. Properties of the probability set functions, conditional probability, independence, stochastic processes, distributions and expectations of random variables, and limiting distributions.

M402 MATHEMATICAL STATISTICS I (Fall)

Prerequisite: M205. A broad introduction to classical large-sample methods. Topics covered are probability, frequency distributions, sampling theory, hypothesis testing and estimation, correlation and regression.

M403 MATHEMATICAL STATISTICS II (Spring)

Prerequisite: M402. Limiting distributions, small sample distributions, distribution-free statistical inference, statistical hypotheses, analysis of variance, and multi-variable distributions.

M407 ABSTRACT ALGEBRA II (Spring)

Prerequisite: M314. A continuation of M314, with topics chosen from among groups, rings, fields, and linear algebra at the option of the instructor.

M408 INTRODUCTION TO NUMBER THEORY (Fall)

Prerequisite: M211. Elementary properties of integers, the Euclidean algorithm, divisibility, congruence and diophantine equations, and number-theoretic functions.

M409 DIFFERENTIAL EQUATIONS (Fall)

Prerequisite: M206. First and second order differential equations, linear differential equations with constant coefficients, singular solutions, and physical applications.

M410 TOPOLOGY (Spring 1975)

Prerequisites: M206, M211. Point-set topology, including topics such as topologies, continuity, connectivity, compactness, separation axioms, and metric spaces.

M411 REAL ANALYSIS I (Fall)

Prerequisites: M206, M211. Sequences, series, elements of metric topology, monotone and continuous real-valued functions of a real variable.

M412 REAL ANALYSIS II (Spring 1975)

Prerequisite: M411. The Riemann and Riemann-Stieltjes integrals, series and sequences of functions.

M413 INTRODUCTION TO MATHEMATICAL PHYSICS (Spring)

Prerequisite: M409. Curvilinear coordination, transformations, vector and scalar fields, partial differential equations and applications.

M415 COMPLEX ANALYSIS (Spring)

Prerequisites: M206, M211. Complex numbers, analytic functions, contour integrals, and complex series.

M416 ADVANCED CALCULUS (Fall)

Prerequisites: M206, M211. Functions of several variables, inverse and implicit functions, curves and surfaces, line and surface integrals, orthogonal functions, and Fourier analysis.

M440 TOPICS IN ABSTRACT MATHEMATICS (Spring)

Prerequisites: M206, M211. Abstract topics in mathematics not usually covered in formal course work as a preparation for students to do independent work in their field of interest.

M441 TOPICS IN APPLIED MATHEMATICS (Fall)

Prerequisites: M206, M211. Applied mathematical topics not usually covered in formal course work as a preparation for students to do independent work in their field of interest.

M490 SPECIAL TOPICS IN MATHEMATICS

Prerequisite: Consent of Department Chairman. This course requires each student to do independent work in his field of interest in mathematics.

ED336M METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL

Prerequisite: ED233 or ED240. A development of the essentials and refinements of lesson planning and effective teaching of secondary school mathematics through classroom experiences at the laboratory school and related seminar sessions.

ED430 STUDENT TEACHING AND SEMINAR

6S.H.

Prerequisite: (See the Secondary Education listing for ED430.) A laboratory course of one-half semester duration providing full-time student teaching experience in public secondary schools under the guidance of a regular classroom cooperating teacher.

ED440 STUDENT TEACHING AND SEMINAR

12S.H.

*Mathematics,
Music*

Prerequisite: (See the Secondary Education listing for ED440.) A laboratory course of one semester duration providing full-time student teaching experience in public secondary schools under the guidance of a regular classroom cooperating teacher.

MUSIC

Elizabeth A. O'Brien, Ed.D., Chairman

Professors Fitzpatrick, Hauge, O'Brien. Assistant Professors Boron, Dyer, Fagerholm, Hoose, Koury, Morrissey.

The program in music is designed to develop the student's aesthetic nature through a program of theoretical and listening courses which are open to all students. Two courses are required for elementary or kindergarten-primary education majors, MS411 for those preparing to teach at the kindergarten-primary level and MS422 for those preparing to teach at the elementary level.

To graduate as a music minor, a student with an instrumental background must accumulate 18 hours in music by fulfilling the following minimum requirements:

9 semester hours of music theory; 3 semester hours in a performing course (Choir or Band); and the remaining semester hours in music courses of the student's choice (excluding MS201).

Participation in one of the musical organizations is required of those pursuing a minor in music.

All courses meet every semester unless otherwise indicated.

MS101 MUSIC THEORY (Fall)

Basic fundamentals, scale systems, melody, rhythm, intervals, chord construction and analysis are learned through writing, sight-singing and dictation.

MS102 ELEMENTARY HARMONY AND MUSICIANSHIP (Spring)

Prerequisite: MS101. A continuation of music theory into harmonic progressions and the foundations of the harmonic craft.

MS201 APPRECIATION OF MUSIC

A general survey of the history and literature of music. Form, orchestration and stylistic features are studied. *Assigned readings.*

MS203 INTERMEDIATE HARMONY AND MUSICIANSHIP I (Fall)

Prerequisite: MS102. The applications of basic theory and harmony into vocal writing and elementary instrumental writing.

MS204 INTERMEDIATE HARMONY AND MUSICIANSHIP II (Spring)

Prerequisite: MS203. Arranging extended harmonies and the analysis of the literature continue the development of musicianship.

MS205 BASIC STUDIES IN MUSIC

Selected works will be heard and analyzed from various approaches. *Recommended for music minors.*

MS241 CHOIR

1S.H.

The study and performance of choral literature from the Renaissance to the contemporary period. *Performance at college functions and the presentation of concerts. Many be taken for a maximum of seven semesters.*

MS242 BAND

1S.H.

Study of standard band and wind ensemble repertoire; rehearsal techniques; preparation and presentation of concerts. *Performs during basketball and hockey season at home and away games. May be taken for a maximum of seven semesters.*

MS301 ADVANCED HARMONY AND MUSICIANSHIP I (Fall)

Prerequisite: MS204. Compositional techniques are applied to vocal scoring and orchestration with emphasis upon transposition and modulation.

MS302 ADVANCED HARMONY AND MUSICIANSHIP II (Fall)

Prerequisite: MS301. Form and analysis with contrapuntal writing continue to develop the harmonic sense.

MS402 MUSICIANSHIP—COMPOSITION (Spring)

Prerequisite: MS302. All the learning and experience of the developing abilities to think in music are capped in a creative musical work of the student's choosing for vocal or instrumental group. If possible, performance of the composition will be realized.

MS411 MUSIC, KINDERGARTEN-PRIMARY

A study of materials and methods suitable for use at the kindergarten-primary level.

MS422 MUSIC, ELEMENTARY SCHOOL

A study of materials and methods suitable for use in the elementary grades.

MS433 MASTERPIECES OF MUSIC (Fall 1975)

Prerequisite: MS201 or MS205. Recognized musical masterworks from the Renaissance to the modern period will be studied through listening.

MS435 CLASS PIANO

A practical group approach to the piano, in which music fundamentals, reading piano music, learning to harmonize and accompany melodies, transposition and improvisation develop essential keyboard skills. *Recommended for music minors and kindergarten-primary students. May be taken for more than one semester.*

MS436 AMERICAN MUSIC (Fall)

Prerequisite: MS201 or MS205. Developments in the history of American music from the time of the New England hymnodists to the present, including jazz and show music.

MS440 MUSIC OF THE TWENTIETH CENTURY (Spring 1976)

Prerequisite: MS201 or MS205. Trends in contemporary music and their relationship to social and political trends in this century.

MS444 RUSSIAN MUSIC (Spring 1975)

Prerequisite: MS201 or MS205. Music from the time of Catherine the Great to the present will be studied.

MS490 HONORS SEMINAR IN MUSIC

Directed study and research on an approved problem in consultation with the department Honors advisor. A finished thesis or lecture-recital and thesis must be accepted. *This course is available for credit only once, preferably in the final semester's work of the undergraduate degree.*

NATURAL SCIENCE

Henry Mariani, Chairman

Associate Professors Demakes, Mariani, McCue, Temple. Instructor Warren.

In addition to majors in chemistry and physics, the department offers the opportunity for mixed majors in the science areas under the heading of natural science. Both major and minor programs are offered in conjunction with the Biology and Regional Studies Departments.

A student who majors in Natural Science is eligible for certification as a General Science Specialist.

The major in Natural Science usually is taken with a secondary education minor and is required to complete the following courses: *BI207 and BI208 or BI201 and BI202, *CH101 and CH102 or CH107 and CH108, *P101 and P102 or P103 and P104, P306 and P406, and RS101.

A minor in Natural Science may be earned by completing the following courses: BI201 and BI202, CH107 and CH108, and P103 and P104.

NURSING

Anne Kibrick, R.N., Ed.D., Director

The specialized four-year program in nursing is an interdisciplinary one balancing offerings in the nursing major with offerings in general education and other supportive courses. Qualified high school graduates and graduates of associate degree and/or diploma programs in nursing are eligible for admission.

Students will receive preparation in general and professional education with an emphasis on nursing. Fifty-five of the 126 hours of the program are in the nursing major. Because the graduate must be capable of performing nursing skills in a variety of settings and of therapeutically assisting individuals with diverse backgrounds and health problems, nursing and supportive courses will provide the student with the knowledge base and clinical practice necessary for the achievement of these program objectives.

The program is designed to meet all educational standards and requirements of the Massachusetts Board of Registration in Nursing which is charged with the responsibility of holding examinations for licensure and registration of professional nurses. In addition, the program is structured to meet the criteria for baccalaureate programs in nursing established by the National League of Nursing, a professional organization which has as one of its functions the accreditation of baccalaureate and higher degree programs in nursing.

The curriculum is planned to meet the needs of the registered nurse who seeks a liberal education and further relevant preparation in nursing. Provision will be made for both part-time and full-time study to facilitate the attainment of their goals.

When the prescribed program has been satisfactorily completed, students will be eligible to receive the degree of Bachelor of Science in Nursing.

Tentative Curriculum Plan

Fall Semester			Spring Semester		
Freshman Year			Credits		
					Credits
E101	English Composition	3	E102	English Composition II	3
BI201	Biology I	3	BI202	Biology II	3
SO201	Introduction to Sociology . . .	3	*NU102	Introduction to Nursing . . .	4
PY101	Introduction to Psychology . .	3	Humanities		3
*NU101	Introduction to Nursing	3	Social Science		3
			<hr/>		
			15		
			<hr/>		
Sophomore Year					
BI213	Human Anatomy and Physiology I	4	BI214	Human Anatomy and Physiology	4
CH107	Chemistry	4	B406	Medical Microbiology	4
M109	Mathematics Analysis	3	CH108	Chemistry	4
Humanities		3	*NU202	Nursing Process	4
*NU201	Nursing Process	3			
			<hr/>		
			17		
			<hr/>		
Junior Year					
*NU301	Core Concepts of Adaptation Theory	6	*NU304	Clinical Application of Nursing Theory I	10
*NU302	Primary Care and Pathophysiology	4	Social Science		3
Social Science		3	Humanities		3
Humanities		3	<hr/>		
			16		
			<hr/>		
Senior Year					
*NU401	Clinical Application of Nursing Theory II	10	*NU403	Nursing Synthesis	8
*NU402	Nursing Leadership	3	Humanities		3
Humanities		3	Elective		3
			<hr/>		
			16		
			<hr/>		
			14		

*Pending approval of the college curriculum committee.

PHILOSOPHY

James G. Colbert Jr., Ph.D., Chairman

Associate Professors Colbert, Moore, O'Neill. Assistant Professors Joseph, O'Sullivan, Scott, Serafini. Instructors Locklin, McGregor, Mellican.

The Department of Philosophy offers courses to all interested candidates for the B.A. and B.S. degrees and a program leading to a major or a minor in philosophy.

The major in philosophy requires a student to complete a minimum of 30 semester hours in philosophy which must include PH201, Greek Philosophy; PH203, Logic; PH301, Ethics; and two of the three history of philosophy courses, PH202, PH204, PH205.

The minor in philosophy requires a student to complete a minimum of 18 semester hours in philosophy which must include PH201, Greek Philosophy; and either PH203, Logic or PH301, Ethics.

All major programs should be planned in consultation with the Department Chairman.

An honors program in philosophy is available. Interested candidates should apply to the Department Chairman.

All courses meet every semester unless otherwise indicated.

PH101 PROBLEMS OF PHILOSOPHY

An introductory course to acquaint the student with the philosophic method, the problems and issues of philosophy and the great philosophers.

PH102 PHILOSOPHY OF MAN (Fall 1975)

Man is studied as a rational and social being with supremacy of intellect and anarchy of feeling. Modern images of man and the traditional great philosophies of life will be studied.

PH201 GREEK PHILOSOPHY

This course concentrates on selected philosophers from the Pre-Socratics through Aristotle.

PH202 CONTINENTAL RATIONALISTS (Fall 1975)

Prerequisite: PH201. A study of the Continental Rationalists from Descartes to Leibniz.

PH203 LOGIC

This is an introductory humanities course on the principles and methods of valid reasoning. Special attention will be given to application of logic.

PH204 MEDIEVAL PHILOSOPHY (Fall 1975)

Prerequisite: PH201. A study of philosophers and problems of philosophy from St. Augustine to the fourteenth century.

PH205 BRITISH EMPIRICISTS (Spring)

Prerequisite: PH201. A study of Hobbes, Locke, Berkeley, Hume.

PH206 EXISTENTIALISM

A critical examination of the leading existentialist thinkers such as Kierkegaard, Nietzsche, Jaspers, Heidegger, Sartre, Marcel, and Camus.

PH207 KANT AND NINETEENTH CENTURY PHILOSOPHY (Fall 1974)

Prerequisite: PH201. A study of the major philosophers from Kant to Bergson.

PH210 SYMBOLIC LOGIC (Fall 1974)

Prerequisite: PH203 or permission of instructor. An examination of modern symbolic or mathematical logic, including both propositional logic and quantification theory. The logic of sentences, axiomatic systems, natural deduction and problems dealing with logical systems will be studied.

PH211 PHILOSOPHY OF HISTORY (Spring 1976)

An examination of various and often conflicting, alternative philosophical ways of interpreting history as well as an examination of some of the recurrent problems.

PH301 ETHICS

A humanities study of the major philosophical views on normative ethics and moral philosophy. What philosophers have said about what is morally right or wrong will be discussed. These theories will be applied to the individual and to society.

PH302 AESTHETICS (Fall)

Prerequisites: Two courses in the humanities and one in philosophy. Examination of the work of art—its qualities, its creation, its effect.

*Philosophy,
Physical Education*

PH303 SOCIAL AND POLITICAL PHILOSOPHY (Spring 1976)

Examination of the relations between ethics and politics, the sources and limits of political obligation, the functions of the state, the nature of law, civil disobedience and revolution.

PH304 AMERICAN PHILOSOPHY (Spring 1976)

Development of American philosophy through reading and discussion of representative selections. Emphasis is placed on Peirce, James, Royce, Whitehead, Santayana, Dewey.

PH305 MEDICAL ETHICS (Spring 1975)

This course explores the basic philosophical problems surrounding Medical Ethics.

PH306 PHILOSOPHY OF RELIGION (Spring)

Prerequisite: One course in philosophy. A philosophical examination of the nature of religious experience, religious arguments, religion and reality, religion and science, religious language, and the changing character of religion in our times.

PH307 THIRD WORLD SOCIAL AND POLITICAL PHILOSOPHY (Fall 1975)

An examination of the metaphysical, epistemological, and the ethical positions of thinkers such as Gandhi, Fanon, Nkrumah, Guevara, and Mao Tse Tung.

PH308 ORIENTAL PHILOSOPHY (Spring)

A study of the philosophies of India, China and Japan, i.e. Hinduism, Buddhism, Confucianism and Zen.

PH309 MARXIST PHILOSOPHY (Spring 1975)

An examination and evaluation of the philosophical positions held by Marx, Engels, Lenin and contemporary Marxist-Leninists.

PH310 THEORY OF KNOWLEDGE (Fall)

Prerequisite: Two courses in philosophy. This course examines the nature of perception and cognition, the relation of thinking to experience and the nature and limitations of knowledge.

PH311 METAPHYSICS (Spring 1975)

Historically regarded as the heart of philosophy, metaphysics deals with the fundamental problems of being such as causation, contingency, categories, and change. The rejection of metaphysics by Kant and some linguistic philosophers will be examined.

PH312 CONTEMPORARY ETHICAL THEORY (Spring 1976)

Prerequisite: PH301. An examination of the major trends in twentieth century ethical and meta-ethical theory: naturalism, intuitionism, emotivism, prescriptivism, and the ordinary language approach.

PH402 CONTEMPORARY PHILOSOPHY (Fall)

Prerequisite: PH101. This course studies the main lines of modern thought. Special attention will be given to the twentieth century philosophers—the Age of Analysis.

PH403 PHILOSOPHY OF EDUCATION (Fall 1974)

Examines educational philosophy in relation to the ethical, metaphysical, and epistemological perspectives of philosophy and critically evaluates some of the philosophies that claim to be a basis for education; e.g., realism, existentialism, pragmatism and naturalism.

PH404 SEMINAR IN PHILOSOPHY (Spring)

Prerequisite: Four courses in philosophy. One or two selected topics will be treated in depth. Topics will vary from semester to semester.

PH490 HONORS SEMINAR IN PHILOSOPHY

The study area will be determined by the student in consultation with the department chairman and faculty member involved in directing the required reading and honors paper. *By arrangement.*

PHYSICAL EDUCATION AND RECREATION FOR MEN AND WOMEN

Marie I. Farrell, Chairman for Women

Peter Saitta, Chairman for Men

Professors Corcoran, Cummings. Associate Professors DeAngelis, Dorsey, Farrell, Goldman, Squires. Assistant Professors Arnold, Bazzano, Borne, Haslett, Larsen, Loscutoff, F. Pappalardo, M. Pappalardo, Parker, Roncarati, Saitta, Webb.

Physical Education Open to all Students on an Elective Basis

The elective graded-credit program of basic instruction in physical education activities is offered cooperatively by the Department of Physical Education and Recreation for Men and Women. This program features a wide variety of physical education activities and is designed to meet the knowledge, skill development, fitness, and carry-over needs of the individual student.

Although a student may elect no more than four physical education activities courses for credit during his or her college career, he or she may continue to elect activity courses for no credit.

The following courses each carry one semester hour credit and meet two hours each week:

PE101C	Soccer	PE121C	Social Dance
PE102M-W	Basketball	PE122C	Sailing
PE103C	Softball	PE123C	Fencing
PE104C	Volleyball	PE124C	Beginning Tennis
PE105C	Squash	PE125C	Advanced Tennis
PE106M	Wrestling	PE126C	Life Saving
PE107C	Weight Training	*PE127C	Water Safety Instruction
PE108C	Gymnastics	PE128C	Riflery
PE109M	Lacrosse	PE129W	Slimnastics
PE110C	Swimming	PE130W	Gymnastics Moderne
PE111C	Bowling	PE131C	Archery
PE112C	Golf	PE132C	Advanced Modern Dance
PE113C	Handball	PE133C	Advanced Riflery
PE114C	Badminton	PE141C	Tap Dance
PE115C	Ice Skating	PE142C	Adagio
PE116C	Physical Conditioning	PE143C	Jazz
PE117C	Table Tennis	PE144C	Modern Ballet
PE119C	Folk & Square Dance Calling	PE145W	Self Defense
PE120C	Modern Dance	PE174C	Folk & Square Dance

M—Men; W—Women; C—Coed.

*Carries 2 semester hours credit.

MAJORS

Physical Education for Men

The Department of Physical Education for Men offers a major concentration in physical education culminating in the Bachelor of Science degree. All physical education majors are reminded that they are responsible for meeting the requirements of teaching certification set forth by the Commonwealth of Massachusetts.

Required:			
*BI211	Anatomy	PE334M	Curriculum for Physical Education
*BI212	Human Physiology	PE336M	Methods of Teaching Physical Education
PE221M	First Aid & Training	PE421	Kinesiology
PE225	History & Philosophy of Physical Education	PE425	Physical Education for the Atypical Student Teaching in Physical Education
PE321	Physiology of Exercise		

The following activity courses are required and must be successfully passed:

		Sem. Hrs. Credit			Sem. Hrs. Credit
PE160	Track and Field	½	PE167	Lacrosse-Soccer	1
PE161	Gymnastics I	½	PE169	Football	½
PE162	Gymnastics II	½	PE170	Golf-Tennis	1
PE163	Weight Training	½	PE172	Power Volleyball	½
PE164	Basketball	½	PE173	Aquatics	1
PE165	Squash-Badminton	1	PE174	Folk and Square Dance	1
PE166	Wrestling	½			

*The prerequisite for these courses can be met by a careful selection of the General Education requirements.

Physical Education for Women

The Department of Physical Education and Recreation for Women offers a major in Physical Education at the secondary level. Certification to teach in Massachusetts is possible in cooperation with the Department of Secondary Education. All physical education majors are reminded that they are responsible for meeting the requirements of teaching certification set forth by the Commonwealth of Massachusetts. A Bachelor of Science or a Bachelor of Arts degree may be earned.

Required:

*B1211	Anatomy	PE321	Physiology of Exercise
*B1212	Human Physiology	PE330	Seminar in Physical Education
PE221W	First Aid	PE421	Kinesiology
PE225	History & Philosophy of Physical Education	PE425	Physical Education for the Atypical

The following activity courses are required and must be successfully passed:

		Sem. Hrs. Credit			Sem. Hrs. Credit
PE161	Field Sports	½	PE176	Gymnastics	1
PE162	Basketball	½	PE181	Lacrosse	½
PE164	Modern Dance	1	PE182	Tennis	½
PE165	Badminton	½	PE183	Team Sports Practicum	1
PE166	Softball	½	PE184	Indiv. Sports Practicum	1
PE167	Stunts & Tumbling	½	PE185	Dance Methods & Techniques	1
PE168	Track & Field	½	PE186	Golf	½
PE171	Field Hockey	½	PE187	Elective	½
PE172	Volleyball	½	PE188	Elective-Gymnastic Judging	½
PE173	Aquatics	1	PE189	Elective-Coaching & Teaching Gymnastics	½
PE174	Folk & Square Dance	1			

**The prerequisites for these courses can be met by a careful selection of the General Education requirements.*

Physical Education for the Elementary School

Any man or woman may elect to major or minor in Physical Education for the Elementary School.

All physical education majors are reminded that they are responsible for meeting the requirements of teaching certification set forth by the Commonwealth of Massachusetts.

The following courses are required for students majoring in physical education at the elementary level:

- *B1211 Anatomy
- *B1212 Human Physiology
- EL400 Student Teaching in Physical Education and Seminar
- HL103 Health Problems in the Classroom
- PE173 Aquatics (one credit)
- PE191 Introduction to Team Sports for Elementary Physical Education (one credit)
- PE192 Introduction to Elementary Rhythms (one credit)
- PE193 Introduction to Gymnastic Activities (one credit)
- PE194 Introduction to Individual Activities for Elementary Physical Education (one credit)
- PE207 Movement Education
- PE221 First Aid
- PE225 History and Philosophy of Physical Education
- PE335 Coordination and Supervision of Physical Education in the Elementary School
- PE337 Elementary Physical Education: Concepts and Practicum
- PE338 Procedures for Teaching Dance, Games and Sports for Children
- PE406 Motor Learning

*Physical
Education*

From among the following the student must elect one course:

- PE203W Coaching Team Sports
- PE204W Officiating Women's Sports
- PE205 Physical Education for the Mentally Retarded
- PE251 Recreation for Groups with Special Needs
- PE281 Recreation and Leadership
- PE285 Camping Education
- PE306 Current Problems in Health and Physical Education
- PE375 Practicum in Motor Development for Children with Learning Disabilities
- PE381 Recreation and the Schools
- PE407 Comparative Physical Education
- PE425 Physical Education for the Atypical

From among the following activities the student must elect two semester hours credit:

- PE161 Field Sports (½ credit)
- PE162 Basketball (½ credit)
- PE164 Modern Dance (½ credit)
- PE165 Badminton (½ credit)
- PE166 Softball (½ credit)
- PE167 Stunts and Tumbling (½ credit)
- PE168 Track and Field (½ credit)
- PE174 Folk and Square Dance (one credit)
- PE176 Gymnastics (one credit)

**The prerequisite for these courses can be met by a careful selection of General Education requirements.*

MINORS

Physical Education for Men

Required:

- PE221M First Aid & Training
- PE225C History & Philosophy of Physical Education
- PE321 Physiology of Exercise
- PE334M Curriculum for Physical Education
- PE336M Methods of Teaching Physical Education
- PE421 Kinesiology

Five (5) physical education activity courses in the 160 series, of which PE161, PE163, and PE174 are required.

Physical Education for Women

Students wishing to minor in physical education for the secondary level must take 18 semester hours in the field including PE221W, First Aid; PE225, History and Philosophy of Physical Education; and four semester hours of skill development to be determined in consultation with the department advisor.

It is recommended that all minors elect BI211, Anatomy; BI212, Human Physiology; and HL102, Health Science.

Recreation

Advisor: Miss DeAngelis

Required:

- PE211 First Aid
- PE281 Recreation and Leadership
- E481 Organization and Administration of Community Recreation

Ten additional hours may be selected from the following:

- PE251 Recreation for Groups with Special Needs
- PE285 Camping Education
- PE381 Recreation and the Schools
- PE403 Organization, Supervision and Administration of Community Schools
- PE445 Physical Education and Recreation for the Mentally Retarded—Practicum and Seminar

Dance
Advisor: Mrs. Pappalardo

*Physical
Education*

Required:

E305 Principles of Dramatic Production
PE141 Tap Dance
PE142 Adagio
PE143 Jazz
PE144 Modern Ballet
PE174 Folk & Square Dance
PE270 History of Dance
PE370 Practicum in Dance

Physical Education and Recreation for Handicapped
Advisor: Miss DeAngelis

Required:

PE221 First Aid
PE281 Recreation & Leadership
PE406 Motor Learning
PE425 Physical Education for the Atypical
PE481 Organization and Administration of Community Recreation

and ONE of the following:

PE205 Physical Education for the Mentally Retarded
PE251 Recreation for Groups with Special Needs
PE352 Therapeutic Recreation and Gerontology

and ONE of the following:

PE455 Physical Education and Recreation for Mentally Retarded-Practicum & Seminar
PE459 Practicum and Seminar of Therapeutic Recreation and Gerontology

All courses meet every semester unless otherwise indicated.

PE203W COACHING TEAM SPORTS (Spring)

The philosophy, standards, techniques, and strategy of coaching competitive girls' and women's teams in basketball, softball, volleyball, field hockey, soccer, and speedball.

PE204 OFFICIATING WOMEN'S SPORTS (Fall)

The ethics, knowledge and techniques of officiating girls' and women's sports are stressed. The sports included are basketball, volleyball, softball, field hockey and track and field.

PE205 PHYSICAL EDUCATION FOR THE MENTALLY RETARDED (Fall)

A study of the characteristics, potentials and limitations of the mentally retarded in the physical education curriculum. The student is provided with an understanding of the philosophy, objectives, and guiding principles of programming physical education activities for the mentally retarded.

**PE207 MOVEMENT EDUCATION: AN INDIVIDUALIZED APPROACH TO
PHYSICAL EDUCATION**

2L.

A practical approach to teaching basic movement and Gymnastics Moderne. This course emphasizes rhythm, the use of hand apparatus and gymnastics equipment.

PE221M FIRST AID AND TRAINING

2S.H.

A study of the nature and causes of injuries in the field of athletic sports. The common hazards of play and preventive measures for athletes from the junior high school to the college level of instruction are studied. First aid principles, rehabilitation, and care of athletic injuries are presented.

PE221W FIRST AID

2S.H.

This course fulfills the requirements of the Standard, Advanced and Instructor's Red Cross First Aid courses. Emphasis is placed on prevention of athletic injuries.

PE225 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION

A study of the history of physical education from the earliest man to the present. An examination of the leading philosophies of education upon which physical education has been based.

PE251 RECREATION FOR GROUPS WITH SPECIAL NEEDS (Spring)

An introduction to the philosophy, objectives and basic concepts of recreation programming for special groups. Emphasis will be placed on methods, materials and leadership techniques for conducting programs for the ill and handicapped, the mentally retarded, teens, aged, the disadvantaged, and other special groups within a community.

PE270 HISTORY OF DANCE (Spring)

A study of the development of dance from primitive man to current trends influencing choreography. This course gives the students an intellectual knowledge of dance to complement their knowledge of the physical skills.

PE281 RECREATION AND LEADERSHIP

This course acquaints prospective community leaders, camp counselors and playground leaders with the need for and the values of recreation in our society.

PE283 RECREATION—A MODERN CONCEPT (Fall 1974)

A study of the part recreation plays in modern society through an analysis of community recreation, school recreation, national voluntary youth organizations, professional opportunities, and various recreational program areas.

PE285 CAMPING EDUCATION (Spring 1975)

A basic course in camping as an educational/recreational program.

PE301 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

A study of the aims and objectives of physical education at the elementary school level of instruction. Emphasis is on the current materials and techniques used for the teaching of physical education in kindergarten through grade 6. Recommend any minor elect this course if it is not required by his or her curriculum.

PE305 PHYSICAL EDUCATION PROBLEMS IN URBAN SCHOOLS (Fall 1975)

The course is designed to examine the problems and procedures of physical education programs in urban schools. Field trips to surrounding urban schools, development of model program materials, and experiences as teacher aides will be supplemented with class discussions.

PE306 CURRENT PROBLEMS IN HEALTH AND PHYSICAL EDUCATION

(Spring 1976)

A topical approach to today's problems in health and physical education through the use of current literature.

PE307 LABORATORY EXPERIENCE IN ATHLETIC TRAINING

4L., 2S.H.

A laboratory course in athletic training procedures in which advanced first aid measures, taping techniques for prevention and care of athletic injury, and rehabilitation processes are studied and applied, with special attention to practical application.

PE321 PHYSIOLOGY OF EXERCISE

2L.

Prerequisite: BI311. A study of the effects of exercise on human organs.

PE330 SEMINAR IN PHYSICAL EDUCATION

2S.H.

This course includes discussions of the problems in the field, the interpretation and implication of recent research findings and incidents experienced in the practice teaching situation.

PE334 CURRICULUM FOR PHYSICAL EDUCATION

2S.H.

A study of the philosophy for and choice and implementation of physical education curricula for elementary, junior and senior high school, and college level students.

**PE335 COORDINATION AND SUPERVISION OF PHYSICAL EDUCATION IN THE
ELEMENTARY SCHOOL (Spring)**

2S.H.

Administrative procedures in the organization of an elementary school physical education program. Special attention will be given to pre-school programs, school and community related programs, and the coordination of physical education with the total school program.

PE336 METHODS OF TEACHING PHYSICAL EDUCATION

A study of appropriate instructional methods in the teaching of physical education activities in grades kindergarten through 12.

**PE3 ELEMENTARY PHYSICAL EDUCATION: CONCEPTS
AND PRACTICUM (Fall)**

2S.H.

A study of current methods, materials, and objectives for the teaching of physical education, pre-school through Grade 6. Emphasis on planning lessons, use of audio-visual aids, and directed laboratory experience.

**PE338 PROCEDURES FOR TEACHING DANCE, GAMES AND SPORTS
FOR CHILDREN (Spring)**

2S.H.

Practice and theory in the selection and teaching of dance activities and games and sports for children of elementary school age.

PE341 COACHING BASKETBALL (Fall)

Prerequisite: PE164 or by permission of Department Chairman. The theory and practice of basketball fundamentals, including individual play and styles of team offense and defense. A study of the rules, conditioning, and inherent problems in coaching the sport.

PE342 COACHING TRACK AND FIELD (Spring)

Prerequisite: PE160 or by permission of Department Chairman. The theory and practice of coaching track and field events at all levels of competition. The study of conditioning, competitive strategy and the skills fundamental to running, jumping, and throwing activities in track and field.

PE343 COACHING FOOTBALL (Spring)

Prerequisite: PE169 or by permission of Department Chairman. The study of various offensive and defensive systems of football play. The study of rules, strategy, coaching methods, conditioning and other allied components in administering a football program.

PE344 COACHING WRESTLING (Fall)

Prerequisite: PE166 or by permission of Department Chairman. A study of the essential techniques of wrestling, conditioning, and preparation of teams for meets and tournaments.

PE346 COACHING LACROSSE (Spring)

Prerequisite: PE167 or by permission of Department Chairman. The theory and practice of coaching lacrosse. The study of the fundamental skills and strategies of team offense and defense, individual play, and in-season and out-of-season preparation. An examination and practical application of rules interpretation and officiating technique.

PE349 PSYCHOLOGY OF COACHING (Fall)

A study of proven coaching methods and an investigation of the problems inherent with large group competitive environments.

PE352 THERAPEUTIC RECREATION AND GERONTOLOGY (Fall 1974, Spring 1976)

Prerequisite: PE251. An in-depth course designed to acquaint the student with specific impairments and handicapping conditions and their implications for recreation, particularly in a rehabilitative setting. Special emphasis will be placed on the elderly and the special problems of aged persons. Field trips and laboratory experience will be provided.

**PE357 PRACTICUM IN MOTOR DEVELOPMENT FOR CHILDREN WITH
LEARNING DISABILITIES**

2L.

The objectives of this course will be to plan and implement programs to assist children in developing spatial relationships, visual motor coordination, body awareness, motor patterning, perceptual matching, and other related activities which affect learning. Opportunities will be provided for the observation and evaluation of children through Standardized Perceptual Motor Test.

PE370 PRACTICUM IN DANCE (Fall)

2L., 2S.H.

A practical application of the dance techniques studied in activity classes. One hour of seminar and two hours' teaching experience per week.

PE381 RECREATION AND THE SCHOOLS (Spring)

An in-depth study of the school as a focal point for the provision of total recreation for all ages. Opportunities will be provided for observation and field work in recreation programs at recognized "Community Schools."

**PE401 THE ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION,
HEALTH, AND ATHLETICS**

A study of the philosophy, objectives, policies, and problems of the administrative process attached to physical education, health, and athletic programs in the school.

**PE403 ORGANIZATION, SUPERVISION AND ADMINISTRATION OF COMMUNITY
SCHOOLS (Spring)**

An in-depth study of planning, organizing, managing, directing, supervising, and evaluating every phase of a community school recreation program.

PE406 MOTOR LEARNING

Prerequisites: BI101-102, PY203, PE421. Analyzes the factors involved in motor skill learning, and investigates relationships between perception, cognition, and motor skill learning. Discusses major theories of learning as applied to motor skills.

PE407 COMPARATIVE PHYSICAL EDUCATION (Spring 1976)

This course includes comparisons of physical education programs in various countries around the world.

PE421 KINESIOLOGY

Prerequisite: PE321. An analytic study of human motion through mechanics.

PE425 PHYSICAL EDUCATION FOR THE ATYPICAL

A study of the various physical disabilities and their implication for physical education. A study of the techniques designed to prepare students to work with the handicapped within special and regular programs of physical education.

PE431 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION

A study of the development, evaluation, and application of tests in physical education. A study of elementary statistical techniques and tools with application to physical education today.

PE455 PHYSICAL EDUCATION AND RECREATION FOR THE MENTALLY RETARDED—PRACTICUM AND SEMINAR (Spring 1975)

Prerequisite: PE205. An in-depth study of the problems of the mentally retarded child as he is influenced by physical education and recreational activities. *Thirty hours of field work.*

PE459 PRACTICUM SEMINAR IN THERAPEUTIC RECREATION AND GERONTOLOGY (Spring 1975)

Prerequisites: PE281 and PE352. An in-depth study of the philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis will be on rehabilitation needs and the team approach within institutional and community settings. Opportunities will be provided for thirty hours field work experience in recreation therapy and or working with the aged.

PE481 ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION (Spring)

Prerequisite: PE281. The historical, philosophical and theoretical background of recreation, play and leisure through classroom lectures, planning of community recreation programs and leadership experiences.

PE490 HONORS IN PHYSICAL EDUCATION

Directed study and independent research on an approved problem of interest to, and selected by, the student. Research will be conducted under faculty supervision. A written document of acceptable quality must be presented at the conclusion of the investigation.

HL102C HEALTH SCIENCE

Stress is placed on scientific information and the development of health practices which contribute to effective living.

HL103 HEALTH PROBLEMS IN THE CLASSROOM

Health problems occurring in school-age children which adversely affect learning will be presented. Emphasis will be placed on the role of the teacher in recognizing and dealing with these problems.

ED336PE METHODS OF TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOLS

2L

Prerequisite: ED333 or ED240. This course includes the principles and techniques specific to the teaching of physical education. Opportunities are provided for observation of secondary school programs.

PHYSICS

Henry Mariani, Chairman

Professor McCarthy. Associate Professors Demakes, Fairbanks, Gordon, Mariani, McCue, Temple. Assistant Professors Brenner, O'Brien; Instructor Warren.

The Physics Department offers a wide variety of courses in the areas of Physics, leading to either a major or a minor in Physics. Majors are required to successfully complete the following courses: P101, P102, P201, P202, P204, P401, P402, P407, P408, P409 and P410.

A minor in physics may be earned by successfully completing the following courses: P101, P102, and 12 additional hours of credit from the list of Advanced Physics courses.

For students interested in teaching Physics, programs can be arranged with the Department Chairman within these requirements. In addition, the department offers general courses in the areas of Natural Sciences as a service both to students and to other departments. Majors and minors in natural science are offered. The requirements for these are listed under Natural Science in the catalog.

All courses meet every semester unless otherwise indicated.

P101 COLLEGE PHYSICS I

2L., 4S.H.

Prerequisite: Student should be taking M105 and/or M106 concurrently. A study of kinematics, dynamics, circular and harmonic motion, reference frames, inertia, force, work, etc. as well as the conservation laws.

P102 COLLEGE PHYSICS II

2L., 4S.H.

Prerequisites: P101 and M106 and/or M107 (may be taken concurrently). A study is made of electricity, magnetism and the concepts of modern, non-classical, physics and relativity as well as modern atomic theory.

P103 GENERAL PHYSICS I

2L., 4S.H.

Topics covered include mechanics and the laws of motion, projectile motion and satellite motion, gravitation, momentum, etc. and the energy conservation laws. *Not recommended for science majors.*

P104 GENERAL PHYSICS II

2L., 4S.H.

Prerequisite: P103. Topics covered include electric and magnetic interactions, electromagnetic radiation, optics, atomic structure and radioactivity. *Not recommended for science majors.*

P201 COLLEGE PHYSICS III (Fall)

2L., 4S.H.

Prerequisites: P102 and M206 (may be taken concurrently). A general treatment of the problem of mechanical and electromagnetic radiation as wave phenomena. Topics considered are mechanical vibrations and waves; periodic motions and their superposition; free vibrations; forced vibrations and resonance; coupled oscillations and normal modes; vibrations of continuous systems; progressive oscillations and normal modes; vibrations of continuous systems; progressive waves; reflections, refractions and diffractions; examples of wave and ray optics.

P202 ELECTROMAGNETIC THEORY (Spring)

Prerequisite: P201 and M206. M409 may be taken concurrently. Maxwell's equations are developed in differential and integral form. Special topics and applications such as electrodynamics, tensors and magnetic resonance are studied. Extensive use is made of Vector Calculus.

P204 STATISTICAL PHYSICS (Spring)

4S.H.

Prerequisites: P201 and M206. M409 may be taken concurrently. The microscopic properties of particles governed by atomic physics are considered, using a statistical approach and are connected to the macroscopic behavior of physical systems.

P205 DIGITAL METHODS IN SCIENTIFIC ANALYSIS (Fall)

Prerequisites: One year of physics and M111 or equivalent knowledge of Fortran. The aim of the course is to help the student to gain practical experience in solving large scale scientific problems using a computer. Students will solve problems related to their scientific interests under the direction of faculty member with a technical familiarity with digital methods. Work will be done on the college computer. *By arrangement.*

P206 STATICS (Spring)

Prerequisites: P101 and M106. M205 may be taken concurrently. A study of statics systems; composition and resolution of forces, resultants, concentrated and distributed; equilibrium, 2 and 3 dimensional; analysis of simple structures; friction, moments of inertia.

P207 MECHANICS OF MATERIALS (Fall)

Prerequisites: P102 and M205. M206 may be taken concurrently. A study of the mechanics of deformable bodies based on the fundamental concepts of equilibrium, geometry of strain, and properties of materials. Relations between stresses, strains and displacements are studied in detail.

P213 ELECTRICAL SYSTEMS AND CIRCUITS (Fall)

2L., 4S.H.

Prerequisites: P102 and M205 (may be taken concurrently). A detailed study is made of resistive and reactive circuits. Topics covered include: Ohm's Law, Kirchhoff's Laws, signals and waveforms, and first and second order systems. An investigation is also made of mechanical analogies and solid state techniques.

P305 ENERGY: REPRODUCTION, NEED AND COST (Fall)

Prerequisite: PS102 or its equivalent. This course deals with the various facets of the present energy situation: the different forms of energy; renewable and finite power sources; the effects of energy consumption on the environment; an energy comparison among nations of the world; the role of conservation; limits to energy growth; and the development of a viable energy ethic for the future.

P306 ASTRONOMY

Prerequisite: One year of college mathematics. An introductory course which treats the major features of the solar system and gives an introduction to stellar astronomy.

P401 MODERN PHYSICS I (Fall)

Prerequisite: P201. The special theory of relativity, the beginnings of quantum theory, the development of wave mechanics and the solution of Schrodinger's equation for some one-dimensional systems are considered.

P402 MODERN PHYSICS II (Spring)

Prerequisite: P401. The formal structure of quantum mechanics. Schrodinger's equation in three dimensions, spin angular momentum, and approximation methods in quantum mechanics are treated.

P406 HISTORY AND PHILOSOPHY OF SCIENCE (Fall)

Prerequisite: PS102 or equivalent. The primary aims of the course are to trace the development of the physical sciences from their lowly origins in the earlier civilizations to their present prominent status in our society and to examine the essential ideas that accompanied and guided their growth.

P407 ADVANCED LAB I (Fall)

6L., 3S.H.

Prerequisites: P201, M207. An intensive laboratory course designed to acquaint the students with the modern techniques and instrumentation of physics.

P408 ADVANCED LAB II (Spring)

6L., 3S.H.

Prerequisite: P407. A continuation of the previous semester's work with special application of the methods to more advanced problems of interest to the students and faculty director.

P409 THEORETICAL PHYSICS I (Fall)

Prerequisites: P413, M402. The dynamics of particles, rigid bodies and elastic media are examined by the Newtonian, Lagrangian and Hamiltonian methods.

P410 THEORETICAL PHYSICS II (Spring)

Prerequisites: P409 or P203, M413. A detailed development and study of electromagnetic theory and Maxwell's equations and their application are considered.

P450 SPECIAL TOPICS IN PHYSICS I (Spring)

2S.H.

Prerequisite: Junior or Senior Physics majors with the permission of the Department Chairman. The topics to be covered will be set up by the instructor to complete the needed backgrounds of the students involved. They will be in special areas of physics and at an advanced level.

P451 SPECIAL TOPICS IN PHYSICS II (Fall)

2S.H.

Prerequisite: P450. A continuation of the above course.

P460 SENIOR RESEARCH I (Spring)

For physics majors only. Hours will be by arrangement with the professor in charge. Research problems are assigned each student. Work will be done under supervision of a faculty member. The work will consist of a literature search, laboratory work and a written account of the results.

P461 SENIOR RESEARCH II (Fall)

Prerequisite: P460. Hours will be by arrangement with the professor in charge. A continuation of P460 with a written thesis being presented to the department.

P490 HONOR SEMINAR (Spring)

For physics majors only. Supervised study and research according to needs and interests of the individual student and the department. Hours variable. Will confer honors if all other requirements are met. Replaces P461 for honor students.

PS101 PHYSICAL SCIENCE I

Intended for those students with a minimal scientific background. The course includes an introduction to the astronomy of our solar system, the Earth's relationship to it and to the universe at large and briefly explores the physics of moving bodies through a consideration of Galileo's experiments, Newton's laws on force and motion, and the related concept of energy. Emphasis will be primarily on ideas and descriptions rather than on the mathematical approach to science.

PS102 PHYSICAL SCIENCE II

The course is concerned with a structure and physical-chemical behavior of the atom and investigates the phenomena of radioactivity and nuclear energy, with their relevant implications for today's society. Emphasis will be primarily on ideas and descriptions rather than on the mathematical approach to science.

PS103 NATURAL SCIENCE I

2L.

Political Science

An introductory course for non-science majors in which selected topics in physics and astronomy are considered. The emphasis is on the inquiry approach. Selected activities in the laboratory sections are used to develop this and to illustrate the methodology of science.

PS104 NATURAL SCIENCE II

2L.

A continuation of the development of the concepts of science for non-science majors. Selected topics in chemistry and atomic structure are considered. The same rationale is employed in the laboratory sessions as in P103.

PS105 WORKSHOP IN PRACTICAL ELECTRONICS

2L.

Designed for students with little or no training in mathematics, physics, or electricity. The operation and design of simple circuits are explained in detail. Emphasis on "how it works" rather than on "why" or theory.

POLITICAL SCIENCE

David L. Sudhalter, Ph.D., Chairman

Professors Rudsten, Sudhalter, Weiner. Associate Professor Langley. Assistant Professors Dowd, Feinstein, Jenko, Klein, Kowalski. Instructor Balboni.

A major in Political Science is open to all interested candidates for the B.A. or B.S. degrees. A major is required to complete thirty (30) hours in political science before graduation of which GV101, GV102, GV201, GV202 and GV301 are required, and five (5) other courses in the field. All major programs should be planned in consultation with the Department Chairman.

A minor is available for all degree candidates. The minor consists of taking any six courses in Political Science.

The Political Science Department has an Honors Program. Interested students should apply to the Department Chairman.

All courses meet every semester unless otherwise indicated.

GV101 AMERICAN GOVERNMENT

An analysis of the executive, legislative, and judicial branches of the national government, with particular attention to the Constitution, federalism, political parties, and economic and welfare activities.

GV102 COMPARATIVE GOVERNMENT

A comparative study of the governments of Great Britain, France, Germany, and the Soviet Union.

GV103 INTRODUCTION TO POLITICAL SCIENCE

Designed to acquaint the student with the parameters and the methodology of political science. The governing process of different political systems will be analyzed in terms of their structure, organization behavior and decision making. Special emphasis will be given to certain universal problems common to all politics.

GV201 POLITICAL THEORY I

Covers the major political doctrines held by theorists from Plato to Hobbes. Special attention given to placing each theorist in the proper cultural context.

GV202 POLITICAL THEORY II

Continuation of GV201 emphasizing the political theorists from Hobbes through Lenin, with particular stress on the liberal democrats, the socialists, and totalitarian principles.

GV203 POLITICS OF MODERN AFRICA (Spring 1975)

A survey of representative African government types, with particular stress on socio-political change, nationalism, duality, nation-building and Pan-Africanism.

GV205 WOMEN IN POLITICS (Fall)

A study of the changing role of women in politics today. The course will examine today's women in relation to contemporary political issues. How can she achieve her goals through the American political process?

GV301 INTERNATIONAL RELATIONS

An analysis of the tangible and intangible elements of national power, the concepts of national interest and the balance of power, and the foreign policies of selected states.

GV302 MASSACHUSETTS GOVERNMENT (Spring)

Prerequisite: GV101. A seminar in the structure and contemporary problems of state, county and town governments in Massachusetts, including leading political personalities. Admission to course by permission of Department Chairperson only.

GV303 AMERICAN CONSTITUTIONAL PROBLEMS AND LAW

Traces American constitutional development, and stresses the role of the Supreme Court, the separation of powers, federalism and individual rights.

GV304 POLITICAL PARTIES AND INTEREST GROUPS (Spring)

The coalition nature of major political parties, their ideology and structure, the role of third parties, political behavior and pressure groups form the core of this course.

GV305 INTRODUCTION TO LAW

A study of the American Legal System through the study of cases in such areas as family, criminal, labor, and administrative law.

GV306 BUSINESS LAW

This course examines the commercial legal environment. Study of the law of contracts, real property, corporations, agency, sales, personal property and partnership.

GV307 INTERNATIONAL ORGANIZATION (Spring)

The evolution of international organization, the Hague system, the League of Nations, the United Nations, and supranational groups form the major strand of this course.

GV308 AMERICAN FOREIGN POLICY (Fall)

A probe designed to give a comprehensive understanding of the conduct of American foreign policy since 1950, with emphasis on economic, diplomatic, and cultural aspects.

GV309 COMMUNIST BEHAVIOR IN WORLD AFFAIRS (Fall 1974)

An overview of relations between selected members of the socialist world: Asian, Latin American, East and West European, and Near Eastern states.

GV310 URBAN GOVERNMENT (Spring)

An analysis of the politics of minorities in urban America with stress on urban renewal, suburbia, metropolitan government, pollution, transportation, and the role of the police.

GV311 THE UNITED STATES CONGRESS (Fall)

To be covered: the mode of election, the seniority system, the committees, the rules and work load and differences between the House and Senate.

GV312 THE PRESIDENCY (Spring)

Central to this course are the President's role, the tremendous powers held, the advisors necessary for decision-making and the difficulties of achieving the consensus.

GV313 POLITICS OF DEVELOPING AREAS (Spring)

Study of social mobilization and political modernization in selected developing countries of the Near East, Asia, Latin America, and Africa, with special emphasis on political elites, ideologies and economic development.

GV314 CONTEMPORARY POLITICAL THEORIES (Fall)

An examination of significant political theories in the twentieth century. Particular stress is given to problems of political obligation.

GV315 INTERNAL POLITICS OF EAST ASIA (Fall)

Study of the internal politics of the Chinese People's Republic, Japan, and other selected nations of the far east.

GV316 PUBLIC ADMINISTRATION

Survey of public administration in the United States, with emphasis on bureaucracy, policy-making administrative power, budgetary process, civil service, and control of administration.

GV317 PUBLIC OPINION AND PROPAGANDA (Fall)

The relationship between public opinion and mass democracy, the news media and public opinion will be analyzed in terms of their political effects, as will democratic and totalitarian propaganda.

GV318 GOVERNMENT AND POLITICS IN THE NEAR EAST (Spring 1975)

Internal developments in Near Eastern countries as well as the tensions between Israel and the Arab states will be scrutinized. The role of the major powers in the area will be probed.

GV319 CIVIL LIBERTIES

The basic principles of constitutional liberties in the United States will be linked to recent and current topics.

GV320 SOVIET FOREIGN POLICY (Spring)

Emphasis is on the behavioral elements in Soviet foreign policy since 1917, with particular attention to policy-making, relationships with socialist bloc countries and western and non-aligned nations.

GV321 GOVERNMENT AND POLITICS OF EASTERN EUROPE (Spring 1976)

Emphasis is on the behavioral characteristics of the Eastern European political systems, including problems of interbloc ideological coordination, economic cooperation and national communism.

GV323 STATE AND LOCAL GOVERNMENT (Fall)

2C.L., 2L.

Prerequisite: GV101. *This course open only to juniors and seniors.* A seminar in city-state power politics in which the students will democratically determine purpose, direction and conduct of the course. The area of student selection will involve bibliography research, seminars, community contacts, papers and guest lecturers.

GV324 REGIONAL ORGANIZATION (Fall)

Prerequisite: GV301. A course dealing with the regional organizations such as the North Atlantic Treaty Organization, the European Economic Community, the Organization of American States, the Organization of African Unity, the Commonwealth, the Nordic Council and the Arab League.

GV325 CONTEMPORARY PROBLEMS OF INTERNATIONAL POLITICS (Fall)

Prerequisite: GV301. An application of the basic elements of power and principles of national interest to an analytical examination of the crucial major problems currently confronting states in their political, economic and cultural relations.

GV326 INTERNATIONAL LAW (Spring)

Prerequisite: GV301. A study of the nature, sources, principles, and development of international law and its application and enforcement by national and international tribunals.

GV328 THE FORMATION OF FOREIGN POLICY—A COMPARATIVE STUDY (Spring 1975)

This course will analyze the various ways in which foreign policy is formulated and implemented by various governments. The roles played by interest groups, political parties and public opinion will be studied and discussed.

GV331 PRESIDENTIAL POLITICS I (Spring 1976)

3S.H.

An experimental course in which students will study past and contemporary presidential elections from the best available academic sources. In addition, students will participate actively in various presidential primaries for candidates of their choice; meet prominent public officials, presidential candidates, distinguished authors and news media experts.

GV332 PRESIDENTIAL POLITICS II (Fall 1976)

3S.H.

A continuation of Presidential Politics I, except that concentration will be on the presidential elections.

GV401 PRACTICUM IN FEDERAL ADMINISTRATION

Prerequisite: 9 hours of study in Political Science and permission of the Department Chairperson. This course will provide students with an opportunity for supervised administrative experience in a regional office of a United States government agency. Students will be required to work 15 hours weekly at the agency to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV402 PRACTICUM IN STATE AND LOCAL ADMINISTRATION

Prerequisite: nine hours of study in Political Science and permission of the Department Chairperson. This course will provide students with an opportunity of supervised administrative and technical work experience in the offices of state and local governments in the Boston region. Students will be required to work 15 hours weekly at the office to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV403 GOVERNMENT AND POLITICS OF CANADA (Fall 1974)

Introduction to the structure and techniques of the Canadian political process. The study of many problems, such as French separatism, political parties and the relationship of Canada to the rest of the world will form the core of the course.

GV404 LAW, VALUES AND SOCIETY (Spring)

A critical examination of the nature of and relationship describing law, values and societies, the *how* and *why* of choices respecting the values which serve as the basis for the constitution, development, and preservation of societies, legal norms and moral imperatives as well as the character and limits of political and social obligations.

GV410 PUBLIC POLICY AND PLANNING (Spring)

Analysis of policy formulation and implementation. Additionally, study of public needs and resolution of these needs in terms of input-output analysis at both local and national levels.

GV490 SEMINAR IN SELECTED TOPICS (Spring)

Required of all honors candidates during the second semester of the junior year. Open to all others with permission of the Department Chairman. This course deals with the writing of special papers and research methods.

GV491 INDEPENDENT READING AND RESEARCH

Students taking this course will prepare independent research under the direction of the instructor. Course open to students only by permission of the Department Chairman. *Hours by arrangement.*

PRE-ENGINEERING PROGRAM

Seymour Kass, Ph.D., Director

This is a cooperative program between Boston State College and the University of Massachusetts, Amherst, and Northeastern University. It leads to a B.S. degree in one of the engineering curricula.

Students take a common two year curriculum at Boston State College and then, upon recommendation of the pre-engineering Program Committee at the college, have the option of admission to the third year of an engineering program at either the University of Massachusetts or Northeastern University.

The University of Massachusetts option requires an additional two years for completion (2-2 format); the Northeastern University option requires three years for completion in its Cooperative Plan of Education, which alternates periods of academic study with periods of full-time employment (2-3 format).

An engineering program is rigorous and demanding. Students who enter it should be well-motivated and should have a good facility in mathematics and the physical sciences.

Interested students should consult the Program Director for more detailed information and advice on how to enter the program.

Outline of Courses for Pre-Engineering Students at Boston State College with Transfer to the University of Massachusetts, Amherst, or Northeastern University:

Freshman Year (common to all options)

M111	Computer Sci. I	3	**P111	Intro. to Engineering	2
CH101	Principles of Chem. I	4	CH102	Principles of Chem. II	4
M105	Analytic Geometry	3	M106	Calculus I	4
*E101	English Composition	3	P101	College Physics I	4
	Social Science Elective	3		Humanities Elective	3
		16			17

Sophomore Year (common to all options)

M205	Calculus II	4	M206	Calculus III	4
P102	College Physics II	4	P201	College Physics III	4

SPECIFIC SOPHOMORE COURSES FOR INDICATED AREAS OF SPECIALIZATION

Required for Chemical Engineers:

CH203	Organic Chem. I	4	CH204	Organic Chem. II	4
CH208	Thermodynamics	3		Humanities Elective (UMass)	
		15		or	
			P206	Statics (NU)	3
			E103	Effective Speech	2
					17

*Required for Chemical Engineers:**Pre-Engineering
Program,
Psychology*

P206	Statics Social Sci. Elective (UMass)	3	P207	Mech. of Materials	3
				Humanities Elective (UMass)	
	or			or	
EC101	Prin. of Econ. I (NU)	3	EC102	Prin. of Econ. II (NU)	3
E103	Effective Speech	2	***Math Elective		3
		16			17

Required for Electrical Engineers:

P213	Elec. Sys. and Ckt. I	4	****P214	Elec. Sys. and Ckt. II	3
M203	Linear Algebra	3		Humanities Elective (UMass) or	3
	Social Sci. Elective	3	E103	Effective Speech	2
		18			16

Required for Industrial Engineers:

EC101	Prin. of Econ. I	3	M400	Probability	3
EC103	Accounting	3		Humanities Elective	3
M203	Linear Algebra	3	E103	Effective Speech	2
		17			16

Required for Mechanical Engineers:

P206	Statics	3	P207	Mechanics of Materials	3
CH208	Thermodynamics	3		Social Sci. Elective	3
	***Math Elective	3	E103	Effective Speech	2
		17			16

*Requirement may be satisfied by advanced placement on the CEEB test.

**Offered at U Mass, Amherst, in cooperation with Boston State College faculty.

***M203, Linear Algebra, M402, Statistics, or M409, Ordinary Differential Equations.

****Pending approval of the College Curriculum Committee.

PSYCHOLOGY

Arthur J. O'Shea, Ph.D., Chairman

Professors Connors, Cristiani, Gilbert, Haughey, Koch, Kostick, O'Shea, Stotsky. Associate Professors Budrose, Calmas, Colgan, Goodale, Powers, Shapiro, Sobota, Wolkon, Young. Assistant professors Fishken, Godin, Solin, White.

The psychology department offers a program of study leading to the B.A. (non-teaching) or B.S. (non-teaching) degrees in psychology as well as course work required for degrees in education.

The psychology major is first of all a scientist—a scientist interested in behavior. The department therefore believes that its psychology majors should receive a thorough preparation and education in the fundamentals of the scientific method and experimental design and analysis. The program in psychology consists of 24 semester hours which must include all of the following courses: PY101, PY103, PY204, and either PY410, PY470 or PY490. It is also strongly recommended (but not required) that psychology majors take PY102. These required courses must be taken in the sequential order indicated since each course in the series builds upon the preceding courses. Two or more required courses cannot be taken concurrently. Students should familiarize themselves with the program so that scheduling conflicts will be avoided.

Majors in psychology who are minoring in secondary education are required to take PY202, PY203, ED336PY and ED430PY for their minor. These courses may not be counted toward the major. However, ED430PY may be substituted for PY410, PY470 or PY490 as long as the student completes all other requirements for the major, including the 24 semester hours in Psychology, in addition to PY202, PY203, ED336PY, and ED430PY.

All psychology majors are required to register as such with the psychology department in order that an advisor may be assigned to help the student plan his program of study.

A psychology minor is comprised of 18 semester hours of which only PY101 is required.

Satisfactory completion of PY101 is a prerequisite for all advanced courses.

All courses meet every semester unless otherwise indicated.

PY101 INTRODUCTION TO PSYCHOLOGY

The course covers the fundamentals of the scientific study of behavior.

PY102 ADVANCED GENERAL PSYCHOLOGY

2L.

Prerequisite: Consent of instructor. To give the student a more sophisticated understanding of himself and his society through reading and guided experience in the experimental analysis of the behavior of organisms.

PY103 INTRODUCTION TO STATISTICS

This fundamental course prepares the student to read the research literature in the social sciences, to undertake courses in experimental psychology, and to advance to more sophisticated courses in statistics.

PY201 CHILD PSYCHOLOGY

The course presents a systematic, integrative description of the psychological development of children from birth through adolescence.

PY202 ADOLESCENT PSYCHOLOGY

This course focuses on the developmental tasks of adolescence, the transitional period from puberty to adulthood.

PY203 EDUCATIONAL PSYCHOLOGY

A study of psychological facts and principles fundamental to education, teaching, and personal relationships between teacher and learner. Learning and the various factors affecting classroom behavior will be discussed.

PY204 GENERAL EXPERIMENTAL PSYCHOLOGY

2L.

Prerequisite: PY103. An introduction to experimental method in the scientific investigation of behavior through laboratory experience and report writing.

PY210 CONTEMPORARY ISSUES IN PSYCHOLOGY

An intensive exploration of a selected topic of current interest in psychology for the general student. Topics will vary; lectures and readings appropriate to the issue will be assigned. May not be elected more than once for credit.

PY220 SOCIAL PSYCHOLOGY

An introduction to the study of behavior of the individual in groups and his interaction with those groups. Under consideration will be topics such as attitudes, language, group interaction, and role theory.

PY230 ORGANIZATIONAL PSYCHOLOGY (Spring)

A study of the interaction of psychological and structural factors of organizations. Emphasis will be placed on the organization as a work-oriented group and its efficiency in doing the work and on the individual functioning in a work group.

PY250 PSYCHOLOGY OF DRUG AND ALCOHOL DEPENDENCE

A survey of physical, psychological and sociological factors in drug and alcohol dependence and abuse. A review of physical, psychological and environmental techniques of treatment. Field trips and experience where possible.

PY302 PHYSIOLOGICAL PSYCHOLOGY (Spring)

Prerequisite: PY102 or equivalent. The study of the nervous system, the brain, sensory processes, and various physiological states, and how all of these relate to behavior.

PY333 INTERRACIAL GROUP EXPERIENCE

An intensive group experience for a small, racially mixed group of students designed to (1) sensitize students to the emotional impact of racism on themselves and others, and (2) facilitate greater self-understanding. Relevant psychological constructs are introduced as students attempt to conceptualize their personal experiences. *Written permission of the Department Chairperson is necessary to register for this course.*

PY401 THEORIES OF PERSONALITY

Prerequisites: PY101 and six hours of additional study in psychology. This course is designed to acquaint the advanced student with the major psychological theories explaining the structure and dynamics of the human personality.

PY402 COGNITIVE DEVELOPMENT (Spring)

Prerequisite: PY201. An advanced seminar on the development of intelligence in children. Theorists to be examined include Piaget, Werner, Bruner and behavioral theorists. Emphasis will be placed on experimental verification of these theories.

PY403 ABNORMAL PSYCHOLOGY

Prerequisites: PY101 and six hours of additional study in psychology. This course is concerned with the development of concepts and principles of unusual mental activity with special emphasis placed upon the relation of those principles and concepts to general, child, and adult psychology. Recommended for psychology majors and education majors.

PY404 PSYCHOLOGY OF THE PUBLIC OFFENDER

Prerequisites: PY201 or PY202, PY403. A study of the etiology of delinquent and criminal behavior with special reference to their psychological sources. "Normal" and pathological offenders and offenses will be studied using all sources of data, including field trips.

PY405 PSYCHOLOGICAL TESTING

This course includes the historical background of psychological testing. It also covers elementary statistical concepts, test standardization, the Stanford-Binet and Wechsler scales, tests of aptitude, achievement, personality, attitudes, and projective methods.

PY406 PERSONNEL PSYCHOLOGY SEMINAR

Prerequisite: consent of Department Chairperson. This course is designed to prepare the student for the work of psychologists in industry. Areas included are industrial selection, management of development, industrial counseling and training.

PY407 HISTORY OF PSYCHOLOGY (Fall 1975)

Prerequisites: PY101 and 12 additional hours in psychology. A study of the historical developments within the science of psychology from the early Greek period to the present day.

PY408 PSYCHOLOGY OF VOCATIONAL DEVELOPMENT (Fall)

Prerequisites: PY202 and 9 additional hours in psychology. An investigation into the social, psychological, and developmental factors affecting vocational choice, including a review of theories, empirical studies and assessment techniques. Emphasis will be on the factors and processes of life-long decision-making about vocational choice.

PY409 PSYCHOLOGY OF LEARNING (Spring)

2L.

An intensive study of the principles of learning including classical and instrumental conditioning, reinforcement, extinction, discrimination, verbal learning, etc. with laboratory experience.

PY410 PSYCHOLOGICAL RESEARCH SEMINAR (Spring)

Prerequisites: PY204 and 15 additional hours of study in psychology. This seminar offers a program of directed study in the formulation of a research problem, the design of an experiment, the analysis of data, the interpretation of the data, and the writing of a report which adequately communicates these procedures. *Open only to seniors.*

PY412 PSYCHOLOGY OF EXCEPTIONAL CHILDREN

Prerequisite: PY201. This course covers the characteristics, problems, and educational provisions for the mentally retarded (both trainable and educable), emotionally disturbed, perceptually handicapped, brain damaged, gifted, deaf, hard of hearing, blind, partially sighted, and those with speech defects.

PY415 PSYCHOLOGY OF CREATIVITY (Spring)

A review of current research in the general area of creativity. Emphasis on experimental investigation and empirical findings. Recommended for psychology majors and education majors.

PY420 THE ORIGINS AND DEVELOPMENT OF SEX DIFFERENCES (Fall)

Biological and psychological research and theories about the nature and origins of male-female differences. Emphasis will be placed on the development of these differences from conception through childhood.

PY430 SENSATION AND PERCEPTION (Fall 1975)

The anatomy, psychophysiology, and psychophysics of vision, audition, olfaction, gustation, and the somesthetic senses. Topics in perception will focus on the visual and auditory systems, and their relations to person and social perception.

PY440 COGNITION (Fall 1975)

2L.

A survey of present and historical answers and approaches to the question: What is thinking? Topics include the history of the concept; dreaming; imagery; creative thinking; computer simulation; language and thought; etc.

PY442 MOTIVATION (Spring)

2L.

The study of historical and contemporary answers to the questions: What makes organisms active? Why are organisms more active at some times than at other times?

PY470 PRACTICUM IN PSYCHOLOGY

Prerequisites: PY204 and 15 additional hours of study in psychology. This course is designed to provide the advanced student with an opportunity to obtain practical experience in a field situation. Students are required to write a comprehensive evaluation and report of their experience. Placements must be arranged through and approved by the Psychology Department. *Open only to seniors. Hours variable.*

PY490 PSYCHOLOGY HONORS (Spring)

Prerequisites: PY204 and consent of Honors Committee. Elected in the final semester of the senior year in place of PY410 (Research Seminar) or PY470 (Practicum). Open only to outstanding psychology majors who display not only the minimal grade-point average of 3.0 or above (accumulative for all courses taken in college), but also the ability, initiative, and persistence necessary to do independent research. Class meets once a month in informal sessions to discuss research ideas, thesis proposals, and data analysis. Students must write an Honors thesis of acceptable quality (grade of A or B) based on original research in order to graduate with Honors.

ED336PY METHODS OF TEACHING PSYCHOLOGY IN THE SECONDARY SCHOOL

2L.

Prerequisites: ED223 and completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

ED430 STUDENT TEACHING AND SEMINAR

6S.H.

Prerequisites: PY202, PY203, ED233 or ED240, ED336PY. A laboratory course of one-half semester or one semester's duration providing full-time student teaching in public secondary schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

ED440 STUDENT TEACHING AND SEMINAR

12S.H.

See description under Secondary Education.

PUBLIC SERVICE PROGRAM

James P. Jones, Ph.D., Director

The Bachelor of Science in Public Service offers major or minor concentrations in fire science, law enforcement, or public administration. Its objectives are to provide current and future practitioners in these fields with a professional education leading to middle management of professional specialist positions, to prepare students for related positions in the broad areas of government service, and in private business and industry, and to provide a background for graduate study in these areas. It combines a general education with courses in a professional specialty, in management, and in supporting disciplines.

The program also encourages transfers from community colleges and other accredited institutions.

Majors or minors in the public service program must register in the Public Service Office (Room 206 Administration Building) to assure the formulation of an academic program meeting the student's career objectives.

Majors in law enforcement, fire science, or public administration must complete 30 semester hours of academic work as specified below (All courses earn three semester hours credit).

REQUIRED CORE

- PB301 Theory and Principles of Management
- PB302 Government Fiscal Policies and Budget Control
- PB401 Collective Bargaining

PROFESSIONAL CONCENTRATION

Law Enforcement

- LE101 Introduction to Law Enforcement
- LE102 Criminal Law I
- LE103 Criminal Law II
- *LE211 Criminalistics I
- LE212 Criminalistics II

Fire Science

- FS101 Introduction to Fire Science
- *FS208 Materials Science
- *FS209 Mechanics & Hydrodynamics
- *FS210 Heat and Calorimetry
- *BI211 Anatomy

Public Administration

- GV316 Public Administration
- GV317 Public Opinion and Propaganda
- *GV323 State and Local Government
- GV402 Practicum in State and Local Government
- *GV410 Public Policy and Planning

Public Service Program

SUPPORTING DISCIPLINES

Two courses selected from designated offerings of the departments of Economics, Mathematics, Political Science, Psychology, Regional Studies, and Sociology above the introductory level*. Two departments must be represented.

A minor in Law Enforcement, Fire Science, or Public Administration requires the completion of 18 semester hours of academic credit, including 12 semester hours in one of the professional concentrations (above) and 6 semester hours in the supporting disciplines (above).

Students who have successfully completed a major in these fields at a community college are granted an automatic minor.

A contract minor, composed of a series of interdepartmental courses, may also be negotiated with Public Service advisors.

**Prerequisites for these courses can be met by a careful selection of General Education requirements.*

All courses meet every semester unless otherwise indicated.

PB01 THEORY AND PRINCIPLES OF MANAGEMENT

The basic management functions of planning, organizing, directing, controlling are examined from theoretical and applied perspectives. Alternative management styles are reviewed for their effects on motivation, morale, and decision-making processes. Case studies are used in applying these functions to a variety of organizational types and managerial levels.

PB02 GOVERNMENT FISCAL POLICIES AND BUDGET CONTROL

Local, state and federal government fiscal policy, procedures and techniques are reviewed. Budget cycles, regulations and decision-making processes are analyzed for their impact on public program planning and control, as well as the problems of acquiring and administering public agency funds.

PB401 COLLECTIVE BARGAINING

Collective bargaining processes and the nature of the union-management relationship in both private and public sectors of the economy are reviewed. Bargaining, negotiation, and settlement issues and strategies are examined. Current labor laws, agreements and disputes are analyzed through the use of case study materials.

LAW ENFORCEMENT

LE101 INTRODUCTION TO LAW ENFORCEMENT

This course is designed to acquaint the student with the historical and philosophical background to law enforcement in the United States, the various agencies established to regulate criminal and non-criminal activities of the citizens, and recent trends.

LE102 CRIMINAL LAW I

This course introduces the student to the basics of criminal law, its development, past and present elements of crimes, the law of arrest and constitutional limitations on evidence.

LE103 CRIMINAL LAW II

This course presents an in-depth study of criminal law and related constitutional considerations, as well as the presentation of cases by the prosecution and the defense.

LE211 CRIMINALISTICS I (Fall)

Prerequisite: CH107-108 or BI201-202 or their equivalents. Current technique in the field of Blood and Body Fluids, Narcotics, Fingerprints and Firearms are surveyed and demonstrated. Experts are invited to lecture in pertinent topics.

LE212 CRIMINALISTICS II (Spring)

Prerequisite: LE211 or its equivalent. Current techniques in the field of explosives, toxicology, documents, and analysis of particulates are surveyed and demonstrated. Emphasis is placed on Crime Scene, searching and evaluation of evidence. Experts are invited to lecture in pertinent topics.

FIRE SCIENCE

FS101 INTRODUCTION TO FIRE SCIENCE

This course surveys the philosophy and history of fire protection and safety; history of loss of life and property by fire; review of municipal fire defenses; study of organization and function of federal, state, and private fire protection and safety agencies and a survey of professional fire protection and safety career opportunities.

FS208 MATERIALS SCIENCE (Fall)

Prerequisite: CH107-108. The study of atomic and molecular structure, bonding of metals, plastics and other structural materials.

FS209 MECHANICS AND HYDRODYNAMICS (Fall)

Prerequisites: P101 or P103; and M103. Selected topics in mechanics, principles of hydrostatics and hydrodynamics.

FS210 HEAT AND CALORIMETRY (Spring)

Prerequisites: P101 or P103; and M103. Heat and thermal transport, kinetic theory, thermal behavior of materials, elements of first and second laws of thermodynamics.

REGIONAL STUDIES

Michael G. Mensoian, Jr., Ph.D., Chairman

Professors Mensoian, Spayne. Associate Professors Duncan, Looney, Singh. Assistant Professors Brewer, Gelpke, Genes, Nellis. Instructor Macus.

The Department of Regional Studies provides students with a flexible, integrated approach to learning and research in the man-environment-interaction field.

Students may develop programs having as goals teaching careers, entrance to graduate schools, or positions with private or public agencies. The Department encourages students to formulate individualized programs of study to maximize meaningful learning and research experiences consonant with their academic-professional goals.

Any one of the four regional studies fields of concentration may be elected as a major or minor. However, students in the secondary education teacher-training program must elect their major from either Regional Cultural Studies (leading to certification in geography) or Regional Physical Studies (leading to certification in earth science).

The four Regional fields of concentration are:

- Regional Cultural Studies
- Regional Latin American Studies
- Regional Physical Studies
- Regional Urban and Planning Studies

Each program, developed under departmental guidance, must meet the following criteria:

- (a) Completion of a designated 100 level course (3 semester hours credit) and either RS401 Field Work, RS450 Seminar, or RS475 Urban Seminar (3 semester hours credit).
- (b) A minimum of 50 per cent of the total number of semester hours required for the major or minor must be completed within the Department of Regional Studies. For those students in the secondary education teacher-training program majoring in either Regional Cultural or Regional Physical studies, a minimum of 30 semester hours credit in the concentration must be completed within the Department of Regional Studies.
- (c) The Program of Study must represent a balanced, integrated learning-research experience.

Students in the teacher-training program enrolled in the Department meet Commonwealth of Massachusetts teaching certification requirements in earth science or geography.

All courses meet every semester unless otherwise indicated.

RS101 GEOLOGY I

2L., 4S.H.

Introduction to the study of the earth, its composition, development, and destruction in relation to natural processes. Laboratory work includes investigation of rocks and minerals, geologic and topographic map analysis.

RS102 GEOLOGY II

2L., 4S.H.

Historical development of continents and ocean basins, development of life, classification of fossil animals and plants.

RS125 ENVIRONMENTAL SYSTEMS

This course will develop an understanding and appreciation of man's natural environment. Utilization of the tools of geographic inquiry will be stressed through identification and evaluation of current environmental conditions and problems.

RS150 WORLD REGIONAL GEOGRAPHY (Fall 1974)

A substantive course applying basic geographic understandings and concepts to selected world regions.

RS151 CULTURE SYSTEMS

This course will consider man within the context of his culture in space and time. His reciprocal relationship with the natural environment will be examined in terms of landscape development, environmental use, and cultural change.

RS152 WORLD ECONOMIC GEOGRAPHY (Spring 1976)

The relationships that exist between the physical environment and human activities. The geography of commerce, industry, agriculture, natural resources and conservation will be presented by utilizing selected regions for study.

RS175 URBAN GEOGRAPHY

An introduction to the factors governing the size and distribution of cities in the U.S. followed by an introduction to the internal structure of the city with specific examples drawn from the Boston metropolitan area.

RS201 MINERALOGY (Fall)

4L., 4S.H.

Prerequisite: RS101. This course deals with concepts, descriptions and determinative procedures in Mineralogy. Basic concepts in crystallography, mineral classification, chemical mineralogy and specific rock-forming, mineral associations are presented.

RS202 GEOMORPHOLOGY (Fall 1975)

Prerequisite: RS101 or RS102. An in-depth study of the surface features of the earth with emphasis placed on the New England geomorphology.

RS225 WEATHER AND CLIMATE

The elements of weather and climate will be studied in detail followed by a systematic consideration of world climatic regions.

RS226 OCEANOGRAPHY I

A correlation of the geographical, geological, physical, chemical and biological aspects of the sea. This course explores the historical, geological and physical aspects.

RS227 OCEANOGRAPHY II

The biological, geographical and recreational aspects of the sea will be explored. The fertile areas of the sea, favorable conditions for life in the sea, plankton invertebrate life, life on the bottom, fishes, mammals, the economic importance of the fishing industry to Massachusetts, the recreational facilities and the future uses of the sea will be discussed.

RS250 REGIONAL GEOGRAPHY OF ANGLO-AMERICA (Spring 1975)

This course is a regional study of the physical, cultural, political, and economic environment of the peoples of Anglo-America. The study will stress relationships that exist between these regions and other important world areas.

RS251 REGIONAL GEOGRAPHY OF LATIN AMERICA (Spring 1976)

A regional study of Middle America and South America. Emphasis is upon the physical environment and the cultural, economic, and political conditions that exist and are in the process of development.

RS252 REGIONAL GEOGRAPHY OF EUROPE (Spring 1975)

The physical, cultural, political, and economic features of the European subcontinent are described in the first part of this course. Regional similarities and differences and Europe's place in the modern world will be analyzed in the latter part.

RS253 GEOGRAPHY OF THE MIDDLE EAST AND NORTHERN AFRICA (Fall 1975)

This course will consider the cultural and physical characteristics of those countries extending from Mauritania-Morocco to Afghanistan. Emphasis will be placed on the historical development and Arabization of the region, strategic significance, and current socio-economic problems.

RS254 REGIONAL GEOGRAPHY OF SOUTH AND EAST ASIA (Fall 1974)

This course provides a survey of the physical, cultural, and economic origins of Asia. This background is then utilized to provide an understanding of the major social, economic and political problems facing this continent.

RS260 CARTOGRAPHY I (Fall)

The art and science of the presentation of earth patterns in the media of maps, models, cartograms and other cartographic devices. Laboratory exercises introducing basic projections, symbolism, handling of cartographic tools, lettering techniques, and fine drawing.

RS275 URBAN LAND USE (Spring)

An analysis of the patterns of land use within the urban area and the factors influencing the distribution of specific uses. Students will be required to undertake land use surveys within specified sections of Boston where such surveys can contribute to the solution of community problems.

RS301 GEOLOGY OF NORTH AMERICA (Spring 1976)

Prerequisite: RS101 or RS125. A general survey of each province of North America, including the geomorphology, structure and human environment of each region.

RS302 PETROLOGY (Spring)

4L., 4S.H.

Prerequisite: RS101 or RS201. Familiarity with the characteristics of sedimentary, igneous and metamorphic rocks is the primary purpose of this course. The physical and chemical environment in which a rock is formed and exists will be examined so that the student may acquire a better understanding of the earth's history. Instruction in petrologic field procedures will be an integral part of the course.

RS310 GEOSCIENCE SEMINAR (Fall)

A seminar to explore current research in Geology, Oceanography and Geography. Students and departmental faculty will participate in the presentation and discussion of relevant topics.

RS325 COASTAL CLIMATOLOGY (Spring 1976)

Prerequisite: RS125 or RS225. This course will study the classification of climate, the ocean-atmosphere relationships, the specific effect of the ocean on the climate of Massachusetts, as well as local research topics.

RS326 COASTAL GEOMORPHOLOGY (Fall 1974)

Prerequisite: RS226. A course designed to teach the student the classification, process, features and mapping of coastlines. Emphasis will be placed on local shorelines.

RS327 BIOGEOGRAPHY (Spring)

An ecological perspective of the environmental relationships of living organisms: their origin, distribution, evolution, adaptation and association.

RS350 GEOGRAPHY OF UNDERDEVELOPED NATIONS (Fall 1974)

This course will classify and evaluate the physical and cultural resource potential of the world's underdeveloped nations.

RS351 POPULATION ANALYSIS (Fall 1974)

This course will acquaint the student with the basic principles underlying the distribution of man. The impact of economic, social and political factors on the density, composition, migration and other significant aspects of population will be studied.

RS352 POLITICAL GEOGRAPHY (Fall 1975)

The influence of the geographic factors—physical and cultural—upon the development of states and their external relations. The geographic basis of power, internal and international tensions, and major writings in the field will be considered.

RS353 GEOGRAPHY OF MANUFACTURING (Fall 1975)

This course will concentrate on various criteria to evaluate the variety and magnitude of manufacturing industries. Emphasis will be placed on studying the industrial geography of Anglo-America especially and the world generally.

RS354 GEOGRAPHY OF INTERNATIONAL TRADE (Spring 1975)

With Boston's international trade as the starting point, the course will proceed into the analysis of the direction, value and structure of the major exports and imports in the international markets. Emphasis will be placed on measuring and locating the magnitude of economic independence of different countries upon their international trade and trade-partners.

RS360 CARTOGRAPHY II (Spring)

Practical experience in the use of cartographic techniques and equipment in the production of maps and graphic materials.

RS375 URBAN PLANNING

Prerequisite: RS175. The historical and contemporary practices in city planning and development of methodology and techniques for analysis of today's planning.

RS376 REGIONAL PLANNING (Fall)

Prerequisite: RS125 or RS275. This course will examine the geographical theories and problems involved in the spatial development of a region.

RS377 URBAN ENVIRONMENTAL PROBLEMS (Spring)

Emphasis is on the identification and analysis of environmental problems generated by the process of urbanization. Lectures and discussion will involve student research and guest lecturers.

**ED336RS METHODS OF TEACHING GEOGRAPHY AND EARTH SCIENCE
IN THE SECONDARY SCHOOLS**

2L.

Prerequisite: ED233 or ED240. Emphasis will be placed upon ESCP and Project Geography materials and methods as well as innovations and recent developments.

RS401 FIELD METHODS

By permission of the instructor. This course is designed principally to increase the student's awareness of the advancements being made in the discipline, formulation of problems, hypothesis, measurements and models in a field work setting.

ED430RS STUDENT TEACHING AND SEMINAR

6S.H. or 12S.H.

Prerequisites: PY203, PY202, ED233 or ED240, ED336. A laboratory course of one-half semester or one semester's duration providing full-time student teaching in public secondary schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

ED440 STUDENT TEACHING AND SEMINAR

12S.H.

See description under Secondary Education.

RS450 SEMINAR (Fall)

A study of the philosophy and research developments within the regional studies field.

RS455 PROBLEMS IN LATIN AMERICA (Fall 1974)

This course will combine lectures and independent student research and presentation on relevant geographic, socio-economic, and demographic problems experienced by Latin American countries.

RS475 URBAN SEMINAR (Fall)

Research papers pertaining to the student's area of interest and pertinent to selected problem areas will be written under the direction of staff members. Research papers will be presented and defended before the seminar students and faculty.

RS490 SPECIAL TOPICS

A course stressing research topics within the regional studies field under the direction of individual faculty members. By departmental permission.

RS499 PRACTICUM

6S.H.

A work program opportunity for qualified departmental majors to obtain practical experience in the field of their interest and training. The work experience will be arranged through the department in an appropriate work situation. The student will submit a critique of experience. By departmental permission.

SECONDARY EDUCATION

Herbert Malick, Ph.D., Chairman

Professors Clarke, Fitzpatrick, Malick, O'Hara, Santosuosso. Associate Professors Finn, Grinnell, Murphy, Natale. Assistant Professors Barry, Ryan.

The minor in Secondary Education consists of twenty-one (21) academic hours as delineated below plus the student teaching experience.

Required for the completion of the Minor in Secondary Education:

- (a) one (1) course from each of blocks I-VI inclusive
- (b) one (1) additional course from any of blocks I-VII inclusive
- (c) Student Teaching and Seminar.

Block	Course Number and Title (prerequisites, if any)
I	*PY202 Adolescent Psychology
II	ED233 (formerly ED333) Procedures for Teaching in the Secondary School (Note: PY202 is a prerequisite.) ED240 Methods & Materials in the Urban Classroom (Note: PY202 is a prerequisite.)
III	ED336 Methods of Teaching (the major subject) in the Secondary School (Note: ED233 or ED240 is a prerequisite.)
IV	ED201 Critical Issues in American Education ED238 Introduction to Urban Education ED337 History & Principles of Secondary Education ED354 Performance Objectives
V	ED334 Curriculum of the Secondary School ED339 (formerly ED239) Curriculum of the Urban School ED356 Values Clarification
VI	ED431 Tests and Measurements (This course is not required of psychology majors who have successfully completed PY103 Introduction to Statistics and PY405 Psychological Measurements. Students in this category may choose any other course in Education with the approval of the Chairman of the Department of Secondary Education.)
VII	ED244 Audio-Visual Media in Education ED245 Production of Audio-Visual Instructional Media ED301 Alternative Education ED302 Teaching Special Needs Students in Regular Middle and Secondary School Classroom ED338 Field Experience in Education Practicum ED340 Directed Study in the Field of Secondary Education ED341 Improved Reading Skills in the Secondary School ED342 The Role of the Computer in Education ED343 Film Study as a Teaching Tool ED351 Selection and Utilization of Curriculum Materials and School Library Resources in the Secondary School ED355 The Adult as a Learner LM410 Methods and Materials for Bilingual Education and FLES

*The prerequisites for this course can be met by a careful selection of General Education requirements.

Students who matriculated at Boston State College before September 1, 1974 may add PY203, Educational Psychology, to block VII without permission of the chairman of the Department of Secondary Education.

Students who prefer a more intensive training in the area of Urban Education should elect ED238, ED339 and ED240.

Student Teaching

ED430 Student Teaching and Seminar (6 semester hours). Optional for students who matriculated before September 1, 1973. Prerequisites: PY202, ED233, ED336.

OR

ED440 Student Teaching and Seminar (12 semester hours). Optional for students who matriculated before September 1, 1973. Required of students who matriculated after September 1, 1973. Prerequisites: PY202, ED233, ED336, plus two additional courses from two additional blocks.

The Professional Semester

The professional semester is defined as a semester during which the student devotes an entire semester to the completion of those courses necessary for his/her professional preparation. Administratively, this involves one of the following two procedures:

A. Open only to students who began their studies at Boston State College before September 1, 1973.

A division of one of the senior semesters into two quarters, one of which shall be devoted to the student teaching experience (ED430, Student Teaching, six semester hours) and one of which shall be devoted to the completion of 3 additional courses (9 semester hours total) offered by the department. The specific courses are to be determined after consultation with a member of the Department Counseling Committee.

B. Required of students who began their studies at Boston State College after September 1, 1973. Optional for students who began their studies at Boston State College before September 1, 1973.

An entire semester devoted to the student teaching experience (ED430, Student Teaching, 12 semester hours), plus the completion of one 3 credit course offered by the department. The specific concomitant course is to be determined after consultation with a member of the Department Counseling Committee.

All courses meet every semester unless otherwise indicated.

ED201 CRITICAL ISSUES IN AMERICAN EDUCATION

This course will analyze contemporary problems and issues in American education. Principle focus will be given to such issues as: goals, fiscal responsibility, structure and operation of public and private education at local, state, and federal levels, and community oriented issues.

ED233 PROCEDURES FOR TEACHING IN THE SECONDARY SCHOOL

(Formerly ED333)

Prerequisite: PY202. This course is designed to provide students with an overview of all aspects of teaching in the secondary school. Emphasis is placed on the methods and technology of teaching with special attention given to innovative methods of promoting learning and the role of the teacher in establishing a favorable setting for learning. An integral part of the course consists of two hours per week spent by each student in practicum including observation of master teachers, involvement on a limited scale in the role of teacher aides and in small group instruction. *Two hours a week in practicum.*

ED238 INTRODUCTION TO URBAN EDUCATION

This course is designed to provide practicum experience in the urban environment through visits to inner-city agencies, family centers, and selected urban schools. Topics to be discussed will include housing conditions, the family, community interactions, etc. *Two hours a week in practicum.*

ED240 METHODS AND MATERIALS IN THE URBAN CLASSROOM

Prerequisite: PY202 (may be taken concurrently). This course provides supervised observation of urban classroom teaching. Such observation will focus on the organization and planning of instructional activities, and the selection, preparation, utilization and evaluation of instructional materials. Students will be involved in the educational process as tutors and teacher aides. *Students must keep one morning or afternoon free for visits to urban schools. Two hours a week in practicum.*

ED244 AUDIO-VISUAL MEDIA IN EDUCATION

This course emphasizes the effective use of various audio-visual media as they influence the learning process.

ED245 PRODUCTION OF AUDIO-VISUAL INSTRUCTIONAL MEDIA

Prerequisite: ED244. This course involves the planning and production of a multi-media instructional kit which includes: slide-magnetic tape, single concept film, transparencies, photographs and three dimensional display. Each student will prepare such materials to fit his specific teaching area.

ED301 ALTERNATIVE EDUCATION (Spring 1975)

This course invites students to: (1) know the objectives and the teaching strategies of alternative educators, the psychological and philosophical foundations of alternative education, the history of the alternative school movement, the variety of alternative school models, and criticisms of alternative educational theories and practice; (2) evaluate alternative educational theories and practices; and (3) design a learning experience in their own discipline incorporating those aspects of alternative education which they perceive foster learning.

ED302 TEACHING SPECIAL NEEDS OF STUDENTS IN REGULAR MIDDLE AND SECONDARY SCHOOL CLASSROOMS

This course will introduce students preparing to teach in the middle and secondary classroom to methods of instruction which may be used in adapting the regular classroom program to the needs of the student with special needs as defined in Chapter 766 of the acts of the Commonwealth of Massachusetts in 1972.

ED334 CURRICULUM OF THE SECONDARY SCHOOL

A survey of the essential features, methods and techniques of the secondary school curriculum and the use of specific materials in the major and minor fields of student concentration as they pertain to curriculum. This course will also deal with problems and issues in present day curriculum construction and relationship of secondary school curricula to American society.

ED336BI METHODS OF TEACHING BIOLOGY IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of biology.

ED336E METHODS OF TEACHING ENGLISH IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the principles and aims involved in the teaching of grammar, composition, and literature.

ED336L METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the principles of language learning along with the methods and materials for teaching modern languages.

ED336M METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of mathematics.

ED336PE METHODS OF TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes the principles and techniques specific to the teaching of physical education.

ED336PY METHODS OF TEACHING PSYCHOLOGY IN THE SECONDARY SCHOOL 2L.
Prerequisites: ED233 or ED240 and the completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

ED336RS METHODS OF TEACHING GEOGRAPHY AND EARTH SCIENCE IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. Emphasis will be placed on ESCP and Project Geography materials and methods as well as innovations and recent developments.

ED336SC METHODS OF TEACHING SCIENCE IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of astronomy, chemistry, geology and physics.

ED336SS METHODS OF TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL 2L.
Prerequisite: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of history, government, economics, and sociology.

ED337 HISTORY AND PRINCIPLES OF SECONDARY EDUCATION
An examination of the historical foundations of secondary education in the United States and a critical analysis of recurrent issues in the history and philosophy of education.

ED338 FIELD EXPERIENCE IN EDUCATION PRACTICUM
Everyday programs in secondary schools and other educational agencies provide varied observatory and participatory experiences for students interested in secondary education. Analysis of pupil-teacher interactions, study of educational agencies, and volunteer services, informs the future educator and provides him with a wealth of different kinds of advantages not usually enjoyed in the student teaching experience.

ED339 CURRICULUM OF THE URBAN SCHOOL (Formerly ED239)
Basic philosophical, psychological, and sociological considerations underlying modern curriculum development will be surveyed. The needs and problems of pupils, teachers, parents and administrators of urban schools will be discussed. Students will have an opportunity to evaluate existing curricular designs in various urban communities in and around the Boston area. *Students must keep one morning or afternoon free for visits to urban schools. Two hours a week in practicum.*

ED340 DIRECTED STUDY IN THE FIELD OF SECONDARY EDUCATION
Prerequisite: Consent of Department Chairman. Students electing this course will complete an assignment of their own choice in the area of educational research. There will be no formal class sessions, but students will be expected to meet with their advisors by appointment.

ED341 IMPROVED READING SKILLS IN THE SECONDARY SCHOOL

Prerequisite: PY202 or PY203. The course is designed to acquaint secondary education minors with those reading skills appropriate for success in the content areas, and to help them develop strategy for teaching such skills.

ED342 ROLE OF THE COMPUTER IN EDUCATION (Spring)

The course will convey to the student an understanding of computer equipment, languages and applications. Students will explore the historical development of the computer and develop an awareness of systems analysis data, management techniques and related peripheral equipment. Although primarily concerned with educational environment, the general approach of the course makes it valuable to all students.

ED343 FILM STUDY AS A TEACHING TOOL (Fall 1975)

This course is designed to emphasize a multi-disciplinary approach to film study as a teaching method and technique. Visual literacy will be considered on three levels of cognition: (1) the ability to recognize and to identify visual symbols; (2) to enumerate and to classify visual stimuli; (3) to formulate conclusions and to draw inferences from that which is depicted visually. Seminar discussions will emphasize film as a teaching tool.

ED351 SELECTION AND UTILIZATION OF CURRICULUM MATERIALS AND SCHOOL LIBRARY RESOURCES IN THE SECONDARY SCHOOL (Spring)

Prerequisite: ED233 or ED240, or permission of department chairman. A thorough investigation of basic curriculum materials in the student's special area of concentration. Secondary creative materials will also be examined. Book selection, textbook theory, bibliotherapy, interest-readability levels, and school library standards and practices will also be emphasized.

ED354 PERFORMANCE OBJECTIVES

This course helps prospective elementary and secondary school teachers to orient themselves toward the concepts of behavioral objectives and teacher accountability. Skills and criteria for writing such objectives are developed by students. Curriculum is analyzed as structures of subject matter arranged for specific learnings.

ED355 THE ADULT AS A LEARNER

Introduction to the field of adult education with special attention given to the adult as a learner. The course will cover such topics as the differences between adult and youth learners, the clientele of adult education, and psychological factors of the adult which affect his learning. The student will be exposed to the methodology, materials and literature as they relate to the adult learner. *Elective for juniors and seniors.*

ED356 VALUES CLARIFICATION

This course focuses on perception of the self as a person. Through a series of exercises, this perception becomes the "focus" as participants analyze various techniques and apply them to their relationships with other people. For potential teachers such application develops into new ways of structuring subject matter to help others to learn about themselves and to adjust to the world about them. Future elementary and secondary school teachers can learn techniques of values clarification for their grade level or subject matter area.

ED364 REFERENCE AND BIBLIOGRAPHY SOURCES IN THE SCHOOL LIBRARY

Prerequisite: EL362 or ED351. A study and evaluation of basic reference sources and bibliographical tools used in the school library. Magazines, newspapers and information files will also be surveyed. Chief emphasis will also be placed upon the philosophical, organizational, and administrative aspects of research techniques and reference services.

ED366 CLASSIFICATION AND CATALOGING OF PRINT AND NON-PRINT INSTRUCTIONAL MATERIALS

A discovery of the fundamentals of classification and descriptive and subject cataloging. Special problems in the comparative study of Dewey, Library of Congress and other classification codes will be covered. Special attention will be given to non-print materials, serial publications, and technical processing operations.

ED430 STUDENT TEACHING AND SEMINAR

6S.H.

Prerequisites: PY202, ED233 or ED240, ED336. A laboratory course of one-half semester's duration providing full-time student teaching in public secondary or middle schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

Sociology Theory and practice of measurement and evaluation in the secondary school. This course will examine standardized and teacher-devised instruments; individual and group measurement of achievement and intelligence; introductory statistics as they pertain to tests and measurements; marking and grading. This course will also include laboratory exercises in achievement test construction and statistical interpretation of scores.

ED440 STUDENT TEACHING AND SEMINAR

12S.H.

Prerequisites: PY202, ED233 or ED240, ED336 plus two additional courses from two additional blocks. A laboratory course of a semester's duration providing full-time student teaching in public secondary or middle schools. The seminar is concerned with current topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth. This course provides more student-teacher experience and leads to greater in-depth understanding than does ED430.

ED462 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL LIBRARY MEDIA CENTER

An overview of library management principles with special regard to objectives, physical plant, staffing, scheduling, book selection, policies and acquisition. Techniques for relating the library to the total school program as well as case study techniques will be investigated.

SOCIOLOGY

Joan Ecklein, Ph.D., Chairman

Associate Professor Ecklein. Assistant Professors Mandell, Margolis, Meymand, Rosenthal, Useem. Instructors Barry, Hirsch.

Sociology as a major is open to all B.A. and B.S. degree candidates. Majors in sociology must complete 30 semester hours in sociology/anthropology, including the required courses: SO201, SO202, and *either* SO204 or SO209.

A minor in sociology, available for all degree candidates, consists of 21 semester hours in sociology/anthropology, including the required courses: SO201 and SO202.

New in 1974-1975 is an avenue for more concentrated work in the field of social work: specialization within the sociology major. A specialization in social work is available to sociology majors, and requires in addition to SO201, SO202, and SO204 *or* SO209, SO250, SO251, SO252, and SO253.

All courses with the exception of SO211, SO215 and SO220 will require the prerequisite SO201.

All 200 courses can be entered by the student if the instructor waives the prerequisite requirement SO201.

All courses meet every semester unless otherwise indicated.

SO201 INTRODUCTION TO SOCIOLOGY

An introduction to the field of sociology. A survey of concepts, socialization, primary groups, social stratification, population, and social change in American society; and the application of these concepts to basic institutions; the family, education, economy, and religion. A prerequisite to advanced courses in sociology.

SO202 HISTORY OF SOCIOLOGICAL THEORY

Sociological theory from the eighteenth century on, emphasizing European theorists such as Durkheim, Spencer, Weber, and Marx; and American theorists: Veblen, Mannheim, Cooley, Merton, and Parsons.

SO203 SOCIAL STRATIFICATION (Fall)

This course will focus on the analysis of the contemporary class system in the United States. It will examine different theories and types of research in social class and stratification as well as the position of the upper class, the middle class, the working class, etc.

SO204 QUANTITATIVE METHODOLOGY (Fall)

This course is designed to provide the student with an introduction to "hard" methods, including an introduction to statistics, the construction of research designs, and the various types of interviewing and questionnaire construction. The course will focus on a field research project to be constructed and carried out by the student.

SO205 CRIME AND DELINQUENCY (Fall)

Description and analysis of causes, contexts, effects, and correctional programs for "delinquents" and "criminals." Attempts to answer the question: Who is the criminal?

SO206 RACE RELATIONS

A survey of the definitions and concepts essential for a study of human relations involved within and between racial groups. Emphases are placed on the current American black/white racial problems with implications analyzed for minority groups in America other than the black population.

SO207 CULTURE AND PERSONALITY (Fall)

The impact of a society's culture upon the personality of its members.

SO208 THE FAMILY

An examination of the social structure and functions of the family in the United States and other cultures. Topics include analyses of the relationship between the family and the social stratification system; sex roles in the family; mate selection and marriage; childrearing patterns; family problems (divorce, alcoholism, etc.); and the changing role of the American family.

SO209 QUALITATIVE METHODOLOGY (Spring)

An introduction to participant observation research. Includes a review of the participant-observation literature, and will focus on the student's own field research project.

SO210 URBAN SOCIOLOGY (Spring)

An examination of the city, past and present; urban living, demographic and survey data applied to the city; and urban problems.

SO211 SOCIOLOGY OF EDUCATION (Spring)

An examination of the social functions of schooling in American society. Topics include political power in public education; schooling and the social stratification system; schools as an agency of socialization and social control; and the social problems of the teaching occupation.

SO212 POLITICAL SOCIOLOGY (Fall 1974, Spring 1976)

The study of political behavior; the impact of social forces on voting behavior; an analysis of pressure groups, and responses to blocking of legitimate political channels as well as the social basis for political parties, and the nature of the modern state.

SO213 MEDICAL SOCIOLOGY (Fall)

Man's social activities—economic, residential, familial—in relation to his health. Medical personnel and patients. The role of the sick. Medical theories as practiced in different societies. Hospitals as social organizations.

SO214 SOCIAL CHANGE (Fall)

Analysis of the processes of social change as they specifically apply to the dynamic between both traditional and advanced societies and between competing advanced nations. Emphasis will be placed on a sociology of development and the basis of modern imperialism.

SO215 SOCIOLOGY OF SEX ROLES (Fall)

An examination of the sex roles traditionally assigned men and women in American and other cultures and an analysis of the economic, political, psychological and other factors which have determined these roles. Special attention will be paid to sex role behavior and attitudes in America today, particularly in the areas of employment, division of labor in the family, and the self-image of the sexes.

SO216 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS (Fall)

The historical meaning and function of work in an industrial society. The analysis of the labor force concept, or specialization, and professionalization.

SO217 SOCIOLOGY OF BUREAUCRATIC ORGANIZATIONS (Spring)

Theories of bureaucracy as they apply to such formal organizations as the government, the economy, religion, the military, and education. Case studies will be introduced and post-bureaucratic forms will be examined.

SO218 SOCIAL MOVEMENTS (Fall 1974, Spring 1976)

The analysis of selected social movements; labor movement; women's liberation, black liberation, student movement. It will study the social and historical conditions leading to each social movement, the strategy and tactics they adopted, the repression they faced, the internal problems they encountered and their achievements in gaining better working and living conditions.

SO219 SOCIOLOGY OF DEVIANCE AND SOCIAL CONTROL (Spring)

Focus is on the formal and informal responses to deviant modes of behavior ranging from law breaking to simple non-conformity. Institutions (prisons, hospitals, half-way houses,

free clinics, courts) as well as agents of social control (schoolteachers, police, psychiatrists, lawyers, doctors, guards, peers) will be discussed in relation to punishing, regulating, and changing people's behavior.

SO220 SOCIAL PROBLEMS (Spring)

Major contemporary social problems will be examined: inequality, racism, corporate power, militarization, schools, and the police.

SO231 WOMEN IN CONTEMPORARY SOCIETY (Spring)

This course will engage students in a structural analysis of women's roles with primary focus on the areas of sexuality, the family, socialization, and work. The approach will be interdisciplinary and will include a comparison among the different historical forms women's roles have taken. Consideration will be given to different sectors of women in the U.S. according to class, race, and sexuality. Drawing from social theories of conflict and change, it will raise question and criticism with regard to the future development of the women's movement.

SO232 WOMEN AND WORK (Spring 1976)

Prerequisites: SO206, SO215, or SO231. An analysis of the position of women in the labor force, historical perspectives on "women's work," and the causes of female occupational patterns, including sex discrimination. Attention will be paid to the conditions of work for women in a variety of job settings, obstacles to careers for women, and alternatives to current patterns.

SO250 INTRODUCTION TO SOCIAL WORK (Spring)

The occupation of social work as a socially sanctioned profession will be the major focus of this course. The course will focus on the introduction of the student to the different roles played by the social worker, the values and activities of social work as a profession, the settings in which social work is practiced, and the methods employed by the social worker in providing services.

SO251 SOCIAL WELFARE (Fall)

The development of social welfare as an institution with an emphasis on its relationship to changing technology, possible solutions to poverty, and the emergence of social work as a profession.

SO252 PRACTICUM IN SOCIAL WELFARE (Fall)

Prerequisite: SO250 or permission of the Department Chairman. Students spend eight hours a week in a social agency of their choice, where they get supervised experience in social work. Class seminar deals with the practical and theoretical aspects of social work and social agency organizational structure. Students are required to write a comprehensive evaluation and report.

SO253 PRACTICUM IN SOCIAL WELFARE (Spring)

This course is for students who wish to continue their practicum experience for a second semester.

SO254 CHILD WELFARE SERVICES (Spring 1976)

A study of the care of children outside of or as a supplement to care in the biological family. Includes foster care, adoption, family day care, homemaker service, and day care centers.

SO301 SOCIAL INTERACTION

Prerequisites: any 9 credits in sociology. The course is designed to give the student experience in using sociological concepts to increase his/her understanding of social interaction in small-group situations.

SO304 SOCIAL THEORY OF MARX AND ENGELS (Spring)

Prerequisites: SO202 or permission of the Department Chairman. An examination of the thought of Karl Marx and Frederick Engels on alienation, class structure, social change, the development of social systems, nature of capitalism and the possibilities of revolution.

SO310 THE COMMUNITY (Spring)

Prerequisites: SO201, SO210, SO220 or consent of the Department Chairman. Developments in American community studies with special emphasis on the study of a specific neighborhood or community. The demography, institutions, and social structure of one community will be chosen by the instructor to be explored by the class. Special emphasis will be given to the achievements and failures of past and present community organization efforts to meet the needs of the people in that community.

SO315 RELIGION AND CONTEMPORARY SOCIETY (Spring 1976)

The nature of religion as a social institution. Religious organization: structure and process. The relationship of religious phenomena and formal religious institutions to other social institutions and processes. The contemporary religious situation.

SO322 SOCIOLOGY OF THE AMERICAN WORKING CLASS (Fall 1974, Spring 1976)

A study of the development of the contemporary American working class; its class formation, ideology and institutions; the role of racial, ethnic and sexual distinctions in creating a specifically American working class. Emphasis will be placed both on methods of work and relations on-the-job as well as working class culture in the community and at home.

SO350 POPULAR CULTURE AND MASS COMMUNICATIONS (Spring 1976)

The development of modern forms of popular culture and their infusion into the mass media. The role of the various media in developing and disseminating a hegemonic, or mass culture. An examination of specific media, including aspects of television and movies, newspapers, mass-circulation magazines, comic books, popular novels, and Sunday supplements. The role of advertising in selling a product and influencing norms.

SO410 SEMINAR ON THE INNER CITY (Fall 1974)

Prerequisites: SO201, S210, SO220 or consent of the Department Chairman. Developments in American community studies with special emphasis on the study of a specific neighborhood or community. The demography, institutions, and social structure of one community will be chosen by the instructor to be explored by the class. Special emphasis will be given to the achievements and failures of past and present community organization efforts to meet the needs of the people in that community.

SO490 SPECIAL TOPICS IN SOCIOLOGY

Independent research on a topic determined by the student in consultation with his advisor. All faculty available.

ANTHROPOLOGY

Joan Ecklein, Ph.D., Chairman

Associate Professor Ecklein. Assistant Professors Fiorillo, Raymond.

A minor in anthropology is available for all interested students. A minor is comprised of 18 semester hours of which, only AN201 is required.

The following courses may be cross-registered towards a minor in anthropology:

- | | |
|--------------------------------|-------|
| a. Introduction to Linguistics | LL411 |
| b. Quantitative Methodology | SO204 |
| c. Culture and Personality | SO207 |

All courses meet every semester unless otherwise indicated.

AN201 CULTURAL ANTHROPOLOGY

The student is introduced to topics such as: the nature and content of culture; culture in time; aspects of culture including the family, kin, religion; cultural values and culture changes.

AN202 PHYSICAL ANTHROPOLOGY (Fall 1974)

An introduction to the field. Subject matter includes primate and human anatomy; fossil man and his evolution; and problems of racial classification and racism.

AN205 TRIBAL CULTURES IN THE MODERN WORLD (Fall 1974)

The cultural context of tribal cultures in the modern world, the impact of conquest, and the concomitant inclusion into larger political and economic systems.

AN209 CULTURES OF MESO-AMERICA (Spring 1976)

The results of recent anthropological research in the area from Mexico southwards to Peru. It includes the investigation of such problems as the impact of modernization and land reform on social structure.

AN211 INDIANS OF SOUTH AMERICA (Spring 1976)

Prehistory and the diversity of cultures from the Siriono to the Incas. The impact of conquest on the indigenous cultures.

AN212 CULTURES OF BLACK AFRICA (Spring 1975)

Peoples, prehistory and cultures of Africa; the spectrum of cultures ranging from Bushmen hunters to the Ashanti Federation.

AN214 WOMEN IN CROSS CULTURAL PERSPECTIVE (Fall 1975)

The position, role, function, and status of women in selected non-western societies. The position of women in evolutionary perspective.

AN300 RESEARCH METHODS IN ANTHROPOLOGY (Spring 1976)

The application of anthropological techniques with an emphasis on participant observation. The planning and carrying out of a small scale research project.

AN301 PRIMATE ETHOLOGY (Fall 1975)

Prerequisite: AN201, AN202. The varieties of the social behavior of non-human primates. An investigation of the roots of man's primate heritage as it impinges on his social behavior.

AN303 PRIMITIVE RELIGIONS (Fall 1975)

Prerequisite: AN201. The relationship between religious institutions and society on a cross cultural basis. The function of magic and the relationship between religion and the formation of social movements.

AN304 CULTURAL ECOLOGY (Spring)

Prerequisite: AN201. The interrelationship of culture and environment in nonliterate cultures. Cultures of the Arctic, Temperate and Tropic regions are covered. Both archaeological and ethnographic sources are used.

AN306 HISTORY OF ANTHROPOLOGICAL THEORY (Spring 1975)

Prerequisites: AN201, AN302. The growth and development of anthropological theory from Maine, Bachofen and Morgan to Radcliffe-Brown and Malinowski.

AN320 ARCHAEOLOGICAL FIELD WORK

3C.L., 6S.H.

Entrance only by permission of the Department Chairman. The methodology of archaeological field work. Includes the excavation of a local prehistoric or early colonial site. *Two semesters.*

AN390 PRO SEMINAR IN ANTHROPOLOGY (Spring 1975)

Prerequisites: AN201, AN302, AN306, or permission of the Department Chairman. The investigation of selected topics from an anthropological perspective.

AN490 SPECIAL TOPICS IN ANTHROPOLOGY

Independent research on a topic determined by the student in consultation with his advisor. All faculty available.

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